

PDS4 Data Dictionary

Abridged - Version 1.12.0.0

PDS4 Data Dictionary: Abridged - Version 1.12.0.0

Generated from Information Model Version 1.12.0.0 on Thu May 02 09:21:18 PDT 2019

Table of Contents

| | |
|-----------------------------------------------|----|
| 1. Introduction | 1 |
| Audience | 1 |
| Acknowledgements | 1 |
| Scope | 1 |
| Applicable Documents | 1 |
| Terminology | 1 |
| 2. Product Classes in the pds namespace. | 3 |
| Ingest_LDD | 3 |
| Product_AIP | 3 |
| Product_Ancillary | 4 |
| Product_Attribute_Definition | 4 |
| Product_Browse | 4 |
| Product_Bundle | 5 |
| Product_Class_Definition | 5 |
| Product_Collection | 5 |
| Product_Context | 6 |
| Product_DIP | 6 |
| Product_DIP_Deep_Archive | 7 |
| Product_Data_Set_PDS3 | 7 |
| Product_Document | 7 |
| Product_File_Repository | 8 |
| Product_File_Text | 8 |
| Product_Instrument_Host_PDS3 | 8 |
| Product_Instrument_PDS3 | 9 |
| Product_Metadata_Supplemental | 9 |
| Product_Mission_PDS3 | 9 |
| Product_Native | 10 |
| Product_Observational | 10 |
| Product_Proxy_PDS3 | 10 |
| Product_SIP | 11 |
| Product_SIP_Deep_Archive | 11 |
| Product_SPICE_Kernel | 11 |
| Product_Service | 12 |
| Product_Software | 12 |
| Product_Subscription_PDS3 | 13 |
| Product_Target_PDS3 | 13 |
| Product_Thumbnail | 13 |
| Product_Update *Deprecated* | 14 |
| Product_Volume_PDS3 | 14 |
| Product_Volume_Set_PDS3 | 14 |
| Product_XML_Schema | 15 |
| Product_Zipped | 15 |
| 3. Support classes in the pds namespace. | 16 |
| Agency | 16 |
| Aggregation_Object | 16 |
| Airborne *Deprecated* | 16 |
| Alias | 17 |
| Alias_List | 17 |
| Ancillary_Object | 17 |
| Archival_Information_Package | 18 |
| Archive_Support_Object | 18 |
| Array | 18 |
| Array_1D *Deprecated* | 19 |
| Array_2D | 19 |
| Array_2D_Image | 20 |

| | |
|--------------------------------------------|----|
| Array_2D_Map | 21 |
| Array_2D_Spectrum | 21 |
| Array_3D | 22 |
| Array_3D_Image | 23 |
| Array_3D_Movie | 23 |
| Array_3D_Spectrum | 24 |
| Axis_Array | 25 |
| Band_Bin *Deprecated* | 25 |
| Band_Bin_Set *Deprecated* | 26 |
| Bundle | 26 |
| Bundle_Member_Entry | 26 |
| Byte_Stream | 27 |
| Checksum_Manifest | 27 |
| Citation_Information | 28 |
| Collection | 28 |
| Composite_Structure | 28 |
| Conceptual_Context_Object | 29 |
| Conceptual_Object | 29 |
| Context_Area | 29 |
| DD_Association | 30 |
| DD_Association_External *Deprecated* | 30 |
| DD_Attribute | 31 |
| DD_Attribute_Full | 31 |
| DD_Attribute_Reference | 32 |
| DD_Class | 33 |
| DD_Class_Full | 33 |
| DD_Class_Reference | 34 |
| DD_Permissible_Value | 34 |
| DD_Permissible_Value_Full | 35 |
| DD_Rule | 35 |
| DD_Rule_Statement | 35 |
| DD_Value_Domain | 36 |
| DD_Value_Domain_Full | 38 |
| DIP_Deep_Archive | 40 |
| Data_Object | 40 |
| Digital_Object | 40 |
| Discipline_Area | 40 |
| Discipline_Facets | 41 |
| Display_2D_Image *Deprecated* | 41 |
| Dissemination_Information_Package | 42 |
| Document | 42 |
| Document_Edition | 42 |
| Document_File | 43 |
| Document_Object | 43 |
| Element_Array | 44 |
| Encoded_Binary | 44 |
| Encoded_Byt_Steam | 45 |
| Encoded_Header | 45 |
| Encoded_Image | 46 |
| Encoded_Native | 46 |
| External_Reference | 47 |
| External_Reference_Extended | 47 |
| Facility | 48 |
| Field | 48 |
| Field_Binary | 48 |
| Field_Bit | 50 |
| Field_Character | 50 |
| Field_Delimited | 51 |

| | |
|--------------------------------------------------|----|
| Field_Statistics | 53 |
| File | 53 |
| File_Area | 54 |
| File_Area_Ancillary | 54 |
| File_Area_Binary | 54 |
| File_Area_Browse | 55 |
| File_Area_Checksum_Manifest | 55 |
| File_Area_Encoded_Image | 55 |
| File_Area_Inventory | 56 |
| File_Area_Metadata | 56 |
| File_Area_Native | 56 |
| File_Area_Observational | 57 |
| File_Area_Observational_Supplemental | 57 |
| File_Area_SIP_Deep_Archive | 58 |
| File_Area_SPICE_Kernel | 58 |
| File_Area_Service_Description | 58 |
| File_Area_Text | 59 |
| File_Area_Transfer_Manifest | 59 |
| File_Area_Update *Deprecated* | 59 |
| File_Area_XML_Schema | 60 |
| Finding_Aid_Object | 60 |
| Group | 60 |
| Group_Facet1 | 61 |
| Group_Facet2 | 61 |
| Group_Field_Binary | 62 |
| Group_Field_Character | 62 |
| Group_Field_Delimited | 63 |
| Header | 63 |
| Identification_Area | 64 |
| Information_Package | 65 |
| Information_Package_Component | 65 |
| Information_Package_Component_Deep_Archive | 66 |
| Instrument | 66 |
| Instrument_Host | 68 |
| Internal_Reference | 68 |
| Inventory | 69 |
| Investigation | 69 |
| Investigation_Area | 70 |
| Local_ID_Reference | 70 |
| Local_ID_Relation | 71 |
| Local_Internal_Reference | 71 |
| Manifest_SIP_Deep_Archive | 71 |
| Mission_Area | 72 |
| Modification_Detail | 72 |
| Modification_History | 73 |
| NSSDC | 73 |
| Native_Object | 73 |
| Node | 73 |
| Object_Statistics | 74 |
| Observation_Area | 75 |
| Observational_Object | 75 |
| Observing_System | 75 |
| Observing_System_Component | 76 |
| Other | 76 |
| PDS_Affiliate | 77 |
| PDS_Guest | 77 |
| Packed_Data_Fields | 78 |
| Parsable_Byt_E Stream | 78 |

| | |
|--------------------------------------|-----|
| Physical_Context_Object | 79 |
| Physical_Object | 79 |
| Primary_Result_Summary | 79 |
| Product | 80 |
| Product_Components | 80 |
| Property_Map | 81 |
| Property_Map_Entry | 81 |
| Property_Maps | 81 |
| Quaternion | 82 |
| Quaternion_Component | 82 |
| Record | 83 |
| Record_Binary | 83 |
| Record_Character | 83 |
| Record_Delimited | 84 |
| Reference_List | 84 |
| Resource | 85 |
| SIP_Deep_Archive | 85 |
| SPICE_Kernel | 86 |
| SPICE_Kernel_Object | 86 |
| Science_Facets | 86 |
| Service | 87 |
| Service_Description | 88 |
| Software | 88 |
| Software_Binary | 89 |
| Software_Script | 89 |
| Software_Source | 89 |
| Source_Product_External | 90 |
| Source_Product_Internal | 91 |
| Special_Constants | 91 |
| Stream_Text | 92 |
| Submission_Information_Package | 92 |
| Supplemental_Object | 93 |
| Symbolic_Literals_PDS | 93 |
| TNDO_Context | 93 |
| TNDO_Supplemental | 93 |
| Table_Base | 94 |
| Table_Binary | 94 |
| Table_Character | 95 |
| Table_Delimited | 95 |
| Tagged_Digital_Child | 96 |
| Tagged_Digital_Object | 96 |
| Tagged_NonDigital_Child | 96 |
| Tagged_NonDigital_Object | 97 |
| Target | 97 |
| Target_Identification | 97 |
| Telescope | 98 |
| Term_Map_SKOS | 99 |
| Terminological_Entry | 99 |
| Terminological_Entry_SKOS | 99 |
| Time_Coordinates | 100 |
| Transfer_Manifest | 100 |
| Type_List_Area | 101 |
| Uniformly_Sampled | 101 |
| Update *Deprecated* | 102 |
| Update_Entry | 102 |
| Update_Object | 102 |
| Vector | 103 |
| Vector_Cartesian_3 | 103 |

| | |
|------------------------------------------------------------------------|-----|
| Vector_Cartesian_3_Acceleration | 104 |
| Vector_Cartesian_3_Pointing | 104 |
| Vector_Cartesian_3_Position | 104 |
| Vector_Cartesian_3_Velocity | 105 |
| Vector_Component | 105 |
| XML_Schema | 105 |
| Zip | 106 |
| 4. PDS3 catalog classes in the pds namespace. | 107 |
| Data_Set_PDS3 | 107 |
| Instrument_Host_PDS3 | 108 |
| Instrument_PDS3 | 108 |
| Mission_PDS3 | 109 |
| Subscriber_PDS3 | 109 |
| TNDO_Context_PDS3 | 109 |
| Target_PDS3 | 110 |
| Volume_PDS3 | 110 |
| Volume_Set_PDS3 | 111 |
| 5. Classes in the Rings discipline namespace. | 112 |
| 6. Classes in the Imaging discipline namespace. | 113 |
| 7. Classes in the Cartography discipline namespace. | 114 |
| 8. Classes in the Display namespace. | 115 |
| 9. Attributes in the pds namespace. | 116 |
| abstract_desc in Data_Set_PDS3 | 116 |
| abstract_desc in Service | 116 |
| abstract_flag in DD_Class | 116 |
| abstract_flag in DD_Class_Full | 117 |
| acknowledgement_text in Document | 117 |
| address in Facility | 117 |
| affiliation_type in PDS_Affiliate | 117 |
| aip_label_checksum in Information_Package_Component_Deep_Archive | 118 |
| aip_livid in Information_Package_Component_Deep_Archive | 118 |
| alternate_designation in Target_Identification | 119 |
| alternate_id in Alias | 119 |
| alternate_telephone_number in PDS_Affiliate | 119 |
| alternate_title in Alias | 120 |
| altitude in Telescope *Deprecated* | 120 |
| aperture in Telescope | 120 |
| archive_status in Data_Set_PDS3 | 120 |
| archive_status in Volume_PDS3 | 122 |
| archive_status_note in Volume_PDS3 | 124 |
| attribute_concept in DD_Attribute_Full | 124 |
| author_list in Citation_Information | 127 |
| author_list in Document | 127 |
| author_list in Software | 128 |
| axes in Array | 128 |
| axes in Array_1D *Deprecated* | 128 |
| axes in Array_2D | 129 |
| axes in Array_3D | 129 |
| axis_index_order in Array | 129 |
| axis_name in Axis_Array | 130 |
| band_number in Band_Bin *Deprecated* | 130 |
| band_width in Band_Bin *Deprecated* | 130 |
| bit_fields in Packed_Data_Fields | 131 |
| bit_mask in Object_Statistics *Deprecated* | 131 |
| bit_string in Digital_Object | 131 |
| bundle_type in Bundle | 132 |
| category in Service | 132 |
| center_wavelength in Band_Bin *Deprecated* | 133 |

| | |
|-------------------------------------------------------------------|-----|
| character_constraint in ASCII_AnyURI | 133 |
| character_constraint in ASCII_BibCode | 133 |
| character_constraint in ASCII_DOI | 134 |
| character_constraint in ASCII_Date *Deprecated* | 134 |
| character_constraint in ASCII_Date_DOY | 134 |
| character_constraint in ASCII_Date_Time *Deprecated* | 135 |
| character_constraint in ASCII_Date_Time_DOY | 135 |
| character_constraint in ASCII_Date_Time_DOY_UTC | 135 |
| character_constraint in ASCII_Date_Time_UTC *Deprecated* | 136 |
| character_constraint in ASCII_Date_Time_YMD | 136 |
| character_constraint in ASCII_Date_Time_YMD_UTC | 136 |
| character_constraint in ASCII_Date_YMD | 137 |
| character_constraint in ASCII_Directory_Path_Name | 137 |
| character_constraint in ASCII_File_Name | 138 |
| character_constraint in ASCII_File_Specification_Name | 138 |
| character_constraint in ASCII_Integer | 138 |
| character_constraint in ASCII_LID | 139 |
| character_constraint in ASCII_LIDVID | 139 |
| character_constraint in ASCII_LIDVID_LID | 139 |
| character_constraint in ASCII_Local_Identifier | 140 |
| character_constraint in ASCII_Local_Identifier_Reference | 140 |
| character_constraint in ASCII_MD5_Checksum | 140 |
| character_constraint in ASCII_NonNegative_Integer | 141 |
| character_constraint in ASCII_Numeric_Base16 | 141 |
| character_constraint in ASCII_Numeric_Base2 | 141 |
| character_constraint in ASCII_Numeric_Base8 | 142 |
| character_constraint in ASCII_Real | 142 |
| character_constraint in ASCII_Short_String_Collapsed | 142 |
| character_constraint in ASCII_Short_String_Preserved | 143 |
| character_constraint in ASCII_String | 143 |
| character_constraint in ASCII_Text_Collapsed | 143 |
| character_constraint in ASCII_Text_Preserved | 144 |
| character_constraint in ASCII_Time | 144 |
| character_constraint in ASCII_VID | 144 |
| character_constraint in Character_Data_Type | 145 |
| character_constraint in UTF8_Short_String_Collapsed | 145 |
| character_constraint in UTF8_Short_String_Preserved | 145 |
| character_constraint in UTF8_Text_Preserved | 146 |
| character_encoding in ASCII_AnyURI | 146 |
| character_encoding in Character_Data_Type | 146 |
| checksum_manifest_checksum in Information_Package_Component | 147 |
| checksum_type in Information_Package_Component | 147 |
| checksum_type in Information_Package_Component_Deep_Archive | 147 |
| citation_text in Data_Set_PDS3 | 148 |
| class_name in DD_Attribute_Full | 148 |
| collection_type in Collection | 148 |
| comment in Alias | 149 |
| comment in Context_Area | 149 |
| comment in DD_Attribute | 150 |
| comment in DD_Attribute_Full | 150 |
| comment in DD_Class_Full | 150 |
| comment in File | 150 |
| comment in Ingest_LDD | 151 |
| comment in Internal_Reference | 151 |
| comment in Local_ID_Reference | 151 |
| comment in Local_ID_Relation | 152 |
| comment in Local_Internal_Reference | 152 |
| comment in Source_Product_Internal | 152 |

| | |
|----------------------------------------------------------|-----|
| compile_note in Software_Source | 153 |
| conceptual_domain in DD_Value_Domain_Full | 153 |
| confidence_level_note in Data_Set_PDS3 | 153 |
| constant_value in DD_Association | 154 |
| container_type in Zip | 154 |
| coordinate_source in Telescope | 155 |
| copyright in Document | 155 |
| country in Facility | 155 |
| creation_date_time in File | 156 |
| curating_facility in Source_Product_External | 156 |
| curating_node_id in Volume_PDS3 | 156 |
| data_regime in Primary_Result_Summary *Deprecated* | 157 |
| data_set_desc in Data_Set_PDS3 | 158 |
| data_set_id in Data_Set_PDS3 | 158 |
| data_set_name in Data_Set_PDS3 | 159 |
| data_set_release_date in Data_Set_PDS3 | 159 |
| data_set_terse_desc in Data_Set_PDS3 | 159 |
| data_type in Element_Array | 160 |
| data_type in Field_Binary | 161 |
| data_type in Field_Bit | 164 |
| data_type in Field_Character | 164 |
| data_type in Field_Delimited | 166 |
| data_type in Quaternion_Component | 167 |
| data_type in Vector | 167 |
| date_time in Update_Entry | 168 |
| definition in DD_Attribute | 168 |
| definition in DD_Attribute_Full | 168 |
| definition in DD_Class | 169 |
| definition in DD_Class_Full | 169 |
| definition in Terminological_Entry | 169 |
| description in Agency | 170 |
| description in Airborne *Deprecated* | 170 |
| description in Array | 170 |
| description in Bundle | 171 |
| description in Citation_Information | 171 |
| description in Collection | 171 |
| description in Composite_Structure | 171 |
| description in Document | 172 |
| description in Document_Edition | 172 |
| description in Encoded_Byte_Stream | 172 |
| description in External_Reference | 173 |
| description in Facility | 173 |
| description in Field_Binary | 173 |
| description in Field_Bit | 174 |
| description in Field_Character | 174 |
| description in Field_Delimited | 174 |
| description in Field_Statistics | 174 |
| description in Group | 175 |
| description in Information_Package | 175 |
| description in Instrument | 175 |
| description in Instrument_Host | 176 |
| description in Investigation | 176 |
| description in Modification_Detail | 176 |
| description in Node | 177 |
| description in Object_Statistics | 177 |
| description in Observing_System | 177 |
| description in Observing_System_Component | 178 |
| description in Other | 178 |

| | |
|---------------------------------------------------------------------|-----|
| description in PDS_Affiliate | 178 |
| description in PDS_Guest | 179 |
| description in Packed_Data_Fields | 179 |
| description in Parsable_BytE_Stream | 179 |
| description in Primary_Result_Summary | 179 |
| description in Property_Map | 180 |
| description in Property_Maps | 180 |
| description in Quaternion | 180 |
| description in Quaternion_Component | 181 |
| description in Resource | 181 |
| description in Service | 181 |
| description in Software | 182 |
| description in Source_Product_External | 182 |
| description in Table_Base | 182 |
| description in Target | 182 |
| description in Target_Identification | 183 |
| description in Telescope | 183 |
| description in Terminological_Entry_SKOS | 183 |
| description in Update *Deprecated* | 184 |
| description in Update_Entry | 184 |
| description in Vector | 184 |
| description in Vector_Component | 185 |
| description in Volume_PDS3 | 185 |
| description in Volume_Set_PDS3 | 185 |
| description in Zip | 185 |
| detector_number in Band_Bin *Deprecated* | 186 |
| directory_path_name in Document_File | 186 |
| discipline_name in Discipline_Facets | 186 |
| document_editions in Document | 187 |
| document_name in Document | 187 |
| document_standard_id in Document_File | 188 |
| doi in Citation_Information | 189 |
| doi in Document | 190 |
| doi in External_Reference | 190 |
| doi in Source_Product_External | 190 |
| domain in Science_Facets | 191 |
| edition_name in Document_Edition | 192 |
| editor_list in Citation_Information | 192 |
| editor_list in Document | 192 |
| electronic_mail_address in PDS_Affiliate | 193 |
| electronic_mail_address in PDS_Guest | 193 |
| element_flag in DD_Class | 193 |
| element_flag in DD_Class_Full | 194 |
| elements in Axis_Array | 194 |
| encoding_standard_id in Encoded_Binary | 194 |
| encoding_standard_id in Encoded_BytE_Stream | 195 |
| encoding_standard_id in Encoded_Header | 195 |
| encoding_standard_id in Encoded_Image | 195 |
| encoding_standard_id in Encoded_Native | 196 |
| encoding_type in SPICE_Kernel | 196 |
| enumeration_flag in DD_Value_Domain | 197 |
| enumeration_flag in DD_Value_Domain_Full | 197 |
| error_constant in Special_Constants | 197 |
| external_namespace_id in Property_Map | 198 |
| external_property_map_id in Property_Maps | 198 |
| external_property_maps_id in Ingest_LDD | 198 |
| external_source_product_identifier in Source_Product_External | 199 |
| facet1 in Group_Facet1 | 199 |

| | |
|-----------------------------------------------------------|-----|
| facet2 in Group_Facet2 | 201 |
| field_delimiter in Table_Delimited | 201 |
| field_format in Field_Binary | 202 |
| field_format in Field_Bit | 202 |
| field_format in Field_Character | 203 |
| field_format in Field_Delimited | 203 |
| field_length in Field_Binary | 203 |
| field_length in Field_Character | 204 |
| field_location in Field_Binary | 204 |
| field_location in Field_Character | 204 |
| field_number in Field | 205 |
| fields in Group | 205 |
| fields in Record | 205 |
| file_name in File | 206 |
| file_size in File | 206 |
| files in Document_Edition | 206 |
| files in Software_Binary | 206 |
| files in Software_Script | 207 |
| files in Software_Source | 207 |
| filter_number in Band_Bin *Deprecated* | 207 |
| first_sampling_parameter_value in Uniformly_Sampled | 208 |
| formation_rule in ASCII_BibCode | 208 |
| formation_rule in ASCII_DOI | 208 |
| formation_rule in ASCII_Date *Deprecated* | 209 |
| formation_rule in ASCII_Date_DOY | 209 |
| formation_rule in ASCII_Date_Time *Deprecated* | 210 |
| formation_rule in ASCII_Date_Time_DOY | 210 |
| formation_rule in ASCII_Date_Time_DOY_UTC | 211 |
| formation_rule in ASCII_Date_Time_UTC *Deprecated* | 211 |
| formation_rule in ASCII_Date_Time_YMD | 212 |
| formation_rule in ASCII_Date_Time_YMD_UTC | 212 |
| formation_rule in ASCII_Date_YMD | 213 |
| formation_rule in ASCII_Directory_Path_Name | 213 |
| formation_rule in ASCII_File_Name | 214 |
| formation_rule in ASCII_File_Specification_Name | 214 |
| formation_rule in ASCII_LID | 215 |
| formation_rule in ASCII_LIDVID | 215 |
| formation_rule in ASCII_LIDVID_LID | 215 |
| formation_rule in ASCII_MD5_Checksum | 216 |
| formation_rule in ASCII_Time | 216 |
| formation_rule in ASCII_VID | 217 |
| formation_rule in Character_Data_Type | 217 |
| formation_rule in DD_Value_Domain | 217 |
| formation_rule in DD_Value_Domain_Full | 218 |
| full_name in Ingest_LDD | 218 |
| full_name in Subscriber_PDS3 | 218 |
| full_name in Update_Entry | 218 |
| grating_position in Band_Bin *Deprecated* | 219 |
| group_length in Group_Field_Binary | 219 |
| group_length in Group_Field_Character | 219 |
| group_location in Group_Field_Binary | 220 |
| group_location in Group_Field_Character | 220 |
| group_number in Group | 220 |
| groups in Group | 221 |
| groups in Record | 221 |
| high_instrument_saturation in Special_Constants | 221 |
| high_representation_saturation in Special_Constants | 222 |
| id_reference_from in Local_ID_Relation | 222 |

| | |
|------------------------------------------------------------------|-----|
| id_reference_to in Local_ID_Reference | 223 |
| id_reference_to in Local_ID_Relation | 223 |
| id_reference_type in Local_ID_Reference | 223 |
| id_reference_type in Local_ID_Relation | 224 |
| identifier in Property_Map | 224 |
| identifier in Property_Maps | 224 |
| identifier in Terminological_Entry_SKOS | 225 |
| identifier_reference in DD_Association | 225 |
| information_model_version in Identification_Area | 225 |
| install_note in Software_Script | 226 |
| instance_id in Property_Map | 227 |
| instance_id in Terminological_Entry | 227 |
| instance_id in Terminological_Entry_SKOS | 227 |
| institution_name in Node | 228 |
| institution_name in PDS_Affiliate | 228 |
| instrument_desc in Instrument_PDS3 | 228 |
| instrument_host_desc in Instrument_Host_PDS3 | 228 |
| instrument_host_id in Instrument_Host_PDS3 | 229 |
| instrument_host_name in Instrument_Host_PDS3 | 229 |
| instrument_host_type in Instrument_Host_PDS3 | 230 |
| instrument_host_version_id in Instrument_Host *Deprecated* | 230 |
| instrument_id in Instrument_PDS3 | 230 |
| instrument_name in Instrument_PDS3 | 231 |
| instrument_serial_number in Instrument_PDS3 | 231 |
| instrument_type in Instrument_PDS3 | 231 |
| instrument_version_id in Instrument_PDS3 | 232 |
| interface_type in Service | 232 |
| invalid_constant in Special_Constants | 232 |
| kernel_type in SPICE_Kernel | 233 |
| keyword in Citation_Information | 233 |
| language in Document_Edition | 234 |
| language in Terminological_Entry | 234 |
| last_modification_date_time in Ingest_LDD | 234 |
| last_sampling_parameter_value in Uniformly_Sampled | 235 |
| ldd_version_id in Ingest_LDD | 235 |
| ldd_version_id in XML_Schema | 235 |
| lid_reference in Bundle_Member_Entry | 236 |
| lid_reference in Internal_Reference | 236 |
| lidvid_reference in Bundle_Member_Entry | 236 |
| lidvid_reference in Internal_Reference | 236 |
| lidvid_reference in Source_Product_Internal | 237 |
| line_display_direction in Display_2D_Image *Deprecated* | 237 |
| local_identifier in Axis_Array | 238 |
| local_identifier in Byte_Stream | 238 |
| local_identifier in Composite_Structure | 238 |
| local_identifier in DD_Association *Deprecated* | 239 |
| local_identifier in DD_Attribute | 239 |
| local_identifier in DD_Attribute_Full | 239 |
| local_identifier in DD_Class | 240 |
| local_identifier in DD_Class_Full | 240 |
| local_identifier in DD_Rule | 240 |
| local_identifier in Field_Statistics | 240 |
| local_identifier in File | 241 |
| local_identifier in Object_Statistics | 241 |
| local_identifier in Quaternion | 241 |
| local_identifier in Subscriber_PDS3 | 242 |
| local_identifier in Update *Deprecated* | 242 |
| local_identifier in Vector | 242 |

| | |
|-----------------------------------------------------------------------|-----|
| local_identifier_reference in Local_Internal_Reference | 243 |
| local_mean_solar_time in Time_Coordinates | 243 |
| local_reference_type in Local_Internal_Reference | 243 |
| local_true_solar_time in Time_Coordinates | 244 |
| logical_identifier in Identification_Area | 244 |
| low_instrument_saturation in Special_Constants | 244 |
| low_representation_saturation in Special_Constants | 245 |
| manifest_checksum in Information_Package_Component_Deep_Archive | 245 |
| manifest_url in Information_Package_Component_Deep_Archive | 245 |
| maximum in Field_Statistics | 246 |
| maximum in Object_Statistics | 246 |
| maximum_characters in ASCII_AnyURI | 246 |
| maximum_characters in ASCII_DOI | 247 |
| maximum_characters in ASCII_Date *Deprecated* | 247 |
| maximum_characters in ASCII_Date_DOY | 247 |
| maximum_characters in ASCII_Date_Time *Deprecated* | 248 |
| maximum_characters in ASCII_Date_Time_DOY | 248 |
| maximum_characters in ASCII_Date_Time_UTC *Deprecated* | 248 |
| maximum_characters in ASCII_Date_Time_YMD | 249 |
| maximum_characters in ASCII_Date_YMD | 249 |
| maximum_characters in ASCII_Directory_Path_Name | 249 |
| maximum_characters in ASCII_File_Name | 250 |
| maximum_characters in ASCII_File_Specification_Name | 250 |
| maximum_characters in ASCII_Integer | 250 |
| maximum_characters in ASCII_LID | 251 |
| maximum_characters in ASCII_LIDVID | 251 |
| maximum_characters in ASCII_LIDVID_LID | 251 |
| maximum_characters in ASCII_Local_Identifier | 252 |
| maximum_characters in ASCII_Local_Identifier_Reference | 252 |
| maximum_characters in ASCII_MD5_Checksum | 253 |
| maximum_characters in ASCII_NonNegative_Integer | 253 |
| maximum_characters in ASCII_Numeric_Base16 | 253 |
| maximum_characters in ASCII_Numeric_Base2 | 254 |
| maximum_characters in ASCII_Numeric_Base8 | 254 |
| maximum_characters in ASCII_Real | 254 |
| maximum_characters in ASCII_Short_String_Collapsed | 255 |
| maximum_characters in ASCII_Short_String_Preserved | 255 |
| maximum_characters in ASCII_Text_Collapsed | 256 |
| maximum_characters in ASCII_Text_Preserved | 256 |
| maximum_characters in ASCII_Time | 256 |
| maximum_characters in ASCII_VID | 257 |
| maximum_characters in Character_Data_Type | 257 |
| maximum_characters in DD_Value_Domain | 257 |
| maximum_characters in DD_Value_Domain_Full | 258 |
| maximum_characters in UTF8_Short_String_Collapsed | 258 |
| maximum_characters in UTF8_Short_String_Preserved | 258 |
| maximum_characters in UTF8_Text_Preserved | 259 |
| maximum_field_length in Field_Delimited | 259 |
| maximum_occurrences in DD_Association | 259 |
| maximum_occurrences in DD_Association_External *Deprecated* | 260 |
| maximum_record_length in Record_Delimited | 260 |
| maximum_scaled_value in Object_Statistics | 260 |
| maximum_value in ASCII_Date_Time *Deprecated* | 261 |
| maximum_value in ASCII_Date_Time_DOY | 261 |
| maximum_value in ASCII_Date_Time_UTC *Deprecated* | 261 |
| maximum_value in ASCII_Date_Time_YMD | 262 |
| maximum_value in ASCII_Integer | 262 |
| maximum_value in ASCII_LID | 262 |

| | |
|--------------------------------------------------------------|-----|
| maximum_value in ASCII_NonNegative_Integer | 263 |
| maximum_value in ASCII_Numeric_Base16 | 263 |
| maximum_value in ASCII_Numeric_Base2 | 263 |
| maximum_value in ASCII_Real | 263 |
| maximum_value in ASCII_Short_String_Collapsed | 264 |
| maximum_value in ASCII_Short_String_Preserved | 264 |
| maximum_value in ASCII_Text_Preserved | 264 |
| maximum_value in ASCII_Time | 265 |
| maximum_value in ASCII_VID | 265 |
| maximum_value in Character_Data_Type | 265 |
| maximum_value in DD_Value_Domain | 266 |
| maximum_value in DD_Value_Domain_Full | 266 |
| maximum_value in UTF8_Short_String_Collapsed | 266 |
| maximum_value in UTF8_Short_String_Preserved | 267 |
| maximum_value in UTF8_Text_Preserved | 267 |
| md5_checksum in Byte_Stream | 267 |
| md5_checksum in File | 267 |
| md5_checksum in Object_Statistics *Deprecated* | 268 |
| mean in Field_Statistics | 268 |
| mean in Object_Statistics | 268 |
| median in Field_Statistics | 269 |
| median in Object_Statistics | 269 |
| medium_type in NSSDC | 269 |
| medium_type in Volume_PDS3 | 270 |
| member_status in Bundle_Member_Entry | 270 |
| minimum in Field_Statistics | 270 |
| minimum in Object_Statistics | 271 |
| minimum_characters in ASCII_AnyURI | 271 |
| minimum_characters in ASCII_DOI | 271 |
| minimum_characters in ASCII_Date *Deprecated* | 272 |
| minimum_characters in ASCII_Date_DOY | 272 |
| minimum_characters in ASCII_Date_Time *Deprecated* | 272 |
| minimum_characters in ASCII_Date_Time_DOY | 273 |
| minimum_characters in ASCII_Date_Time_UTC *Deprecated* | 273 |
| minimum_characters in ASCII_Date_Time_YMD | 273 |
| minimum_characters in ASCII_Date_YMD | 274 |
| minimum_characters in ASCII_Directory_Path_Name | 274 |
| minimum_characters in ASCII_File_Name | 274 |
| minimum_characters in ASCII_File_Specification_Name | 275 |
| minimum_characters in ASCII_Integer | 275 |
| minimum_characters in ASCII_LID | 275 |
| minimum_characters in ASCII_LIDVID | 276 |
| minimum_characters in ASCII_LIDVID_LID | 276 |
| minimum_characters in ASCII_Local_Identifier | 277 |
| minimum_characters in ASCII_Local_Identifier_Reference | 277 |
| minimum_characters in ASCII_MD5_Checksum | 277 |
| minimum_characters in ASCII_NonNegative_Integer | 278 |
| minimum_characters in ASCII_Numeric_Base16 | 278 |
| minimum_characters in ASCII_Numeric_Base2 | 279 |
| minimum_characters in ASCII_Numeric_Base8 | 279 |
| minimum_characters in ASCII_Real | 279 |
| minimum_characters in ASCII_Short_String_Collapsed | 280 |
| minimum_characters in ASCII_Short_String_Preserved | 280 |
| minimum_characters in ASCII_String | 280 |
| minimum_characters in ASCII_Text_Collapsed | 281 |
| minimum_characters in ASCII_Text_Preserved | 281 |
| minimum_characters in ASCII_Time | 282 |
| minimum_characters in ASCII_VID | 282 |

| | |
|-------------------------------------------------------------------|-----|
| minimum_characters in Character_Data_Type | 282 |
| minimum_characters in DD_Value_Domain | 283 |
| minimum_characters in DD_Value_Domain_Full | 283 |
| minimum_characters in UTF8_Short_String_Collapsed | 283 |
| minimum_characters in UTF8_Short_String_Preserved | 284 |
| minimum_characters in UTF8_String | 284 |
| minimum_characters in UTF8_Text_Preserved | 284 |
| minimum_occurrences in DD_Association | 285 |
| minimum_occurrences in DD_Association_External *Deprecated* | 285 |
| minimum_scaled_value in Object_Statistics | 285 |
| minimum_value in ASCII_Date_Time *Deprecated* | 286 |
| minimum_value in ASCII_Date_Time_DOY | 286 |
| minimum_value in ASCII_Date_Time_UTC *Deprecated* | 286 |
| minimum_value in ASCII_Date_Time_YMD | 287 |
| minimum_value in ASCII_Integer | 287 |
| minimum_value in ASCII_LID | 287 |
| minimum_value in ASCII_NonNegative_Integer | 288 |
| minimum_value in ASCII_Numeric_Base16 | 288 |
| minimum_value in ASCII_Numeric_Base2 | 288 |
| minimum_value in ASCII_Real | 288 |
| minimum_value in ASCII_Short_String_Collapsed | 289 |
| minimum_value in ASCII_Short_String_Preserved | 289 |
| minimum_value in ASCII_Text_Preserved | 289 |
| minimum_value in ASCII_Time | 290 |
| minimum_value in ASCII_VID | 290 |
| minimum_value in Character_Data_Type | 290 |
| minimum_value in DD_Value_Domain | 291 |
| minimum_value in DD_Value_Domain_Full | 291 |
| minimum_value in UTF8_Short_String_Collapsed | 291 |
| minimum_value in UTF8_Short_String_Preserved | 292 |
| minimum_value in UTF8_Text_Preserved | 292 |
| missing_constant in Special_Constants | 292 |
| mission_desc in Mission_PDS3 | 293 |
| mission_name in Mission_PDS3 | 293 |
| mission_objectives_summary in Mission_PDS3 | 293 |
| mission_start_date in Mission_PDS3 | 294 |
| mission_stop_date in Mission_PDS3 | 294 |
| model_id in Instrument | 294 |
| model_object_id in Property_Map | 294 |
| model_object_id in Terminological_Entry_SKOS | 295 |
| model_object_type in Property_Map | 295 |
| model_object_type in Terminological_Entry_SKOS | 295 |
| modification_date in Modification_Detail | 296 |
| naif_host_id in Instrument_Host | 296 |
| naif_instrument_id in Instrument | 297 |
| name in Agency | 297 |
| name in Airborne *Deprecated* | 297 |
| name in Byte_Stream | 298 |
| name in DD_Association_External *Deprecated* | 298 |
| name in DD_Attribute | 298 |
| name in DD_Attribute_Full | 299 |
| name in DD_Attribute_Reference | 299 |
| name in DD_Class | 299 |
| name in DD_Class_Full | 300 |
| name in DD_Class_Reference | 300 |
| name in External_Reference_Extended | 300 |
| name in Facility | 300 |
| name in Field | 301 |

| | |
|------------------------------------------------------|-----|
| name in Field_Binary | 301 |
| name in Field_Bit | 301 |
| name in Field_Character | 302 |
| name in Field_Delimited | 302 |
| name in Group | 302 |
| name in Ingest_LDD | 303 |
| name in Instrument | 303 |
| name in Instrument_Host | 303 |
| name in Investigation | 303 |
| name in Investigation_Area | 304 |
| name in Node | 304 |
| name in Observing_System | 305 |
| name in Observing_System_Component | 305 |
| name in PDS_Affiliate | 306 |
| name in PDS_Guest | 306 |
| name in Quaternion | 307 |
| name in Quaternion_Component | 307 |
| name in Resource | 307 |
| name in Service | 307 |
| name in Software | 308 |
| name in Target | 308 |
| name in Target_Identification | 308 |
| name in Terminological_Entry | 309 |
| name in Vector | 309 |
| name in Vector_Component | 309 |
| namespace_id in DD_Association_External *Deprecated* | 310 |
| namespace_id in DD_Attribute_Full | 310 |
| namespace_id in DD_Attribute_Reference | 310 |
| namespace_id in DD_Class_Full | 311 |
| namespace_id in DD_Class_Reference | 311 |
| namespace_id in Ingest_LDD | 311 |
| namespace_id in Property_Maps | 312 |
| namespace_id in Terminological_Entry_SKOS | 312 |
| nil_reason in Symbolic_Literals_PDS | 312 |
| nillable_flag in DD_Attribute | 313 |
| nillable_flag in DD_Attribute_Full | 313 |
| not_applicable_constant in Special_Constants | 313 |
| nssdc_collection_id in NSSDC | 314 |
| object_length in Encoded_Byte_Stream | 314 |
| object_length in Header | 314 |
| object_length in Parsable_Byte_Stream | 315 |
| offset in Array | 315 |
| offset in Encoded_Byte_Stream | 315 |
| offset in Parsable_Byte_Stream | 315 |
| offset in Table_Base | 316 |
| orbit_direction in Target_PDS3 | 316 |
| original_band in Band_Bin *Deprecated* | 316 |
| os_version in Software_Binary | 317 |
| os_version in Software_Source | 317 |
| parsing_standard_id in Checksum_Manifest | 317 |
| parsing_standard_id in Header | 318 |
| parsing_standard_id in Parsable_Byte_Stream | 319 |
| parsing_standard_id in SPICE_Kernel | 319 |
| parsing_standard_id in Service_Description | 320 |
| parsing_standard_id in Stream_Text | 320 |
| parsing_standard_id in Table_Delimited | 320 |
| parsing_standard_id in XML_Schema | 321 |
| pattern in ASCII_BibCode | 321 |

| | |
|------------------------------------------------------------------|-----|
| pattern in ASCII_DOI | 322 |
| pattern in ASCII_Date *Deprecated* | 322 |
| pattern in ASCII_Date_DOY | 322 |
| pattern in ASCII_Date_Time *Deprecated* | 323 |
| pattern in ASCII_Date_Time_DOY | 324 |
| pattern in ASCII_Date_Time_DOU | 325 |
| pattern in ASCII_Date_Time_UTC *Deprecated* | 326 |
| pattern in ASCII_Date_Time_YMD | 328 |
| pattern in ASCII_Date_Time_YMD_UTC | 329 |
| pattern in ASCII_Date_YMD | 330 |
| pattern in ASCII_LID | 330 |
| pattern in ASCII_MD5_Checksum | 330 |
| pattern in ASCII_NonNegative_Integer | 331 |
| pattern in ASCII_Numeric_Base16 | 331 |
| pattern in ASCII_Numeric_Base2 | 331 |
| pattern in ASCII_Numeric_Base8 | 332 |
| pattern in ASCII_Real | 332 |
| pattern in ASCII_Time | 332 |
| pattern in ASCII_VID | 333 |
| pattern in Character_Data_Type | 333 |
| pattern in DD_Value_Domain | 334 |
| pattern in DD_Value_Domain_Full | 334 |
| phone_book_flag in PDS_Affiliate | 334 |
| postal_address_text in PDS_Affiliate | 334 |
| preferred_flag in Terminological_Entry | 335 |
| primary_body_name in Target_PDS3 | 335 |
| processing_level in Primary_Result_Summary | 335 |
| processing_level_id in Primary_Result_Summary *Deprecated* | 336 |
| producer_full_name in Data_Set_PDS3 | 337 |
| product_class in Identification_Area | 337 |
| program_notes_id in Software_Binary | 339 |
| program_notes_id in Software_Source | 339 |
| programmers_manual_id in Software | 340 |
| property_map_subtype in Property_Map_Entry | 340 |
| property_map_type in Property_Map_Entry | 340 |
| property_name in Property_Map_Entry | 341 |
| property_value in Property_Map_Entry | 341 |
| provider_site_id in SIP_Deep_Archive | 341 |
| publication_date in Document | 342 |
| publication_date in Volume_PDS3 | 342 |
| publication_year in Citation_Information | 342 |
| purpose in Primary_Result_Summary | 343 |
| record_delimiter in Checksum_Manifest | 343 |
| record_delimiter in Stream_Text | 344 |
| record_delimiter in Table_Binary *Deprecated* | 344 |
| record_delimiter in Table_Character | 345 |
| record_delimiter in Table_Delimited | 345 |
| record_length in Record_Binary | 345 |
| record_length in Record_Character | 346 |
| records in File | 346 |
| records in Table_Base | 346 |
| records in Table_Delimited | 347 |
| reference_frame_id in Vector | 347 |
| reference_frame_id in Vector_Cartesian_3 | 347 |
| reference_text in External_Reference | 348 |
| reference_type in Bundle_Member_Entry | 348 |
| reference_type in DD_Association | 349 |
| reference_type in DD_Association_External *Deprecated* | 349 |

| | |
|-----------------------------------------------------------------|-----|
| reference_type in Internal_Reference | 350 |
| reference_type in Inventory | 357 |
| reference_type in Source_Product_External | 357 |
| reference_type in Source_Product_Internal | 358 |
| referenced_identifier in Terminological_Entry_SKOS | 358 |
| registered_by in DD_Attribute_Full | 358 |
| registered_by in DD_Class_Full | 359 |
| registration_authority in Terminological_Entry_SKOS | 359 |
| registration_authority_id in DD_Attribute_Full | 360 |
| registration_authority_id in DD_Class_Full | 360 |
| registration_date in PDS_Affiliate | 360 |
| registration_date in PDS_Guest | 361 |
| release_date in Service | 361 |
| repetitions in Group | 361 |
| revision_id in Document | 361 |
| rotation_direction in Target_PDS3 | 362 |
| rule_assign in DD_Rule | 362 |
| rule_context in DD_Rule | 362 |
| rule_description in DD_Rule_Statement | 363 |
| rule_message in DD_Rule_Statement | 363 |
| rule_test in DD_Rule_Statement | 363 |
| rule_type in DD_Rule_Statement | 364 |
| rule_value in DD_Rule_Statement | 364 |
| sample_display_direction in Display_2D_Image *Deprecated* | 364 |
| sampling_parameter_base in Uniformly_Sampled | 365 |
| sampling_parameter_interval in Uniformly_Sampled | 365 |
| sampling_parameter_name in Uniformly_Sampled | 366 |
| sampling_parameter_scale in Uniformly_Sampled | 366 |
| sampling_parameter_unit in Uniformly_Sampled | 367 |
| sampling_parameters in Uniformly_Sampled *Deprecated* | 367 |
| saturated_constant in Special_Constants | 368 |
| scaling_factor in Band_Bin *Deprecated* | 368 |
| scaling_factor in Element_Array | 368 |
| scaling_factor in Field_Binary | 369 |
| scaling_factor in Field_Bit | 369 |
| scaling_factor in Field_Character | 369 |
| scaling_factor in Field_Delimited | 370 |
| sequence_number in Axis_Array | 370 |
| sequence_number in Quaternion_Component | 370 |
| sequence_number in Vector_Component | 371 |
| serial_number in Instrument | 371 |
| serial_number in Instrument_Host | 371 |
| service_type in Service | 371 |
| skos_relation_name in Terminological_Entry_SKOS | 372 |
| software_dialect in Software_Source | 372 |
| software_format_type in Software_Binary | 373 |
| software_format_type in Software_Source | 373 |
| software_id in Software | 373 |
| software_language in Service | 374 |
| software_language in Software_Source | 374 |
| software_type in Software | 374 |
| software_version_id in Software | 374 |
| solar_longitude in Time_Coordinates | 375 |
| sort_name in PDS_Affiliate | 375 |
| sort_name in PDS_Guest | 375 |
| specified_unit_id in DD_Value_Domain | 376 |
| specified_unit_id in DD_Value_Domain_Full | 376 |
| specified_unit_id in Unit_Of_Measure | 376 |

| | |
|--------------------------------------------------------------|-----|
| specified_unit_id in Units_of_Acceleration | 377 |
| specified_unit_id in Units_of_Amount_Of_Substance | 377 |
| specified_unit_id in Units_of_Angle | 377 |
| specified_unit_id in Units_of_Angular_Velocity | 378 |
| specified_unit_id in Units_of_Area | 378 |
| specified_unit_id in Units_of_Current | 378 |
| specified_unit_id in Units_of_Energy | 379 |
| specified_unit_id in Units_of_Frame_Rate | 379 |
| specified_unit_id in Units_of_Frequency | 380 |
| specified_unit_id in Units_of_Length | 380 |
| specified_unit_id in Units_of_Map_Scale *Deprecated* | 380 |
| specified_unit_id in Units_of_Mass | 381 |
| specified_unit_id in Units_of_Misc | 381 |
| specified_unit_id in Units_of_None | 381 |
| specified_unit_id in Units_of_Optical_Path_Length | 382 |
| specified_unit_id in Units_of_Pixel_Resolution_Angular | 382 |
| specified_unit_id in Units_of_Pixel_Resolution_Linear | 383 |
| specified_unit_id in Units_of_Pixel_Resolution_Map | 383 |
| specified_unit_id in Units_of_Pixel_Scale_Angular | 383 |
| specified_unit_id in Units_of_Pixel_Scale_Linear | 384 |
| specified_unit_id in Units_of_Pixel_Scale_Map | 384 |
| specified_unit_id in Units_of_Pressure | 385 |
| specified_unit_id in Units_of_Radiance | 385 |
| specified_unit_id in Units_of_Rates | 385 |
| specified_unit_id in Units_of_Solid_Angle | 386 |
| specified_unit_id in Units_of_Spectral_Irradiance | 386 |
| specified_unit_id in Units_of_Spectral_Radiance | 386 |
| specified_unit_id in Units_of_Storage | 387 |
| specified_unit_id in Units_of_Temperature | 387 |
| specified_unit_id in Units_of_Time | 388 |
| specified_unit_id in Units_of_Velocity | 388 |
| specified_unit_id in Units_of_Voltage | 388 |
| specified_unit_id in Units_of_Volume | 389 |
| specified_unit_id in Units_of_Wavenumber | 389 |
| standard_deviation in Band_Bin *Deprecated* | 389 |
| standard_deviation in Field_Statistics | 390 |
| standard_deviation in Object_Statistics | 390 |
| start_bit in Field_Bit *Deprecated* | 390 |
| start_bit_location in Field_Bit | 391 |
| start_date in Investigation | 391 |
| start_date_time in Data_Set_PDS3 *Deprecated* | 391 |
| start_date_time in Time_Coordinates | 392 |
| start_time in Data_Set_PDS3 | 392 |
| starting_point_identifier in Document_Edition | 392 |
| steward_id in DD_Attribute_Full | 392 |
| steward_id in DD_Class_Full | 393 |
| steward_id in Ingest_LDD | 394 |
| steward_id in Terminological_Entry_SKOS | 394 |
| stop_bit in Field_Bit *Deprecated* | 395 |
| stop_bit_location in Field_Bit | 395 |
| stop_date in Investigation | 395 |
| stop_date_time in Data_Set_PDS3 *Deprecated* | 396 |
| stop_date_time in Time_Coordinates | 396 |
| stop_time in Data_Set_PDS3 | 396 |
| subfacet1 in Group_Facet1 | 397 |
| subfacet2 in Group_Facet2 | 397 |
| submitter_name in DD_Attribute | 397 |
| submitter_name in DD_Attribute_Full | 397 |

| | |
|-------------------------------------------------------------------|-----|
| submitter_name in DD_Class | 398 |
| submitter_name in DD_Class_Full | 398 |
| subscription_id in Subscriber_PDS3 | 398 |
| subtype in Instrument *Deprecated* | 399 |
| supported_architecture_note in Software_Binary | 399 |
| supported_architecture_note in Software_Source | 399 |
| supported_environment_note in Software_Script | 400 |
| supported_operating_system_note in Service | 400 |
| supported_operating_system_note in Software_Binary | 400 |
| supported_operating_system_note in Software_Source | 401 |
| system_requirements_note in Service | 401 |
| system_requirements_note in Software_Binary | 401 |
| system_requirements_note in Software_Script | 402 |
| system_requirements_note in Software_Source | 402 |
| target_desc in Target_PDS3 | 402 |
| target_name in Target_PDS3 | 403 |
| target_type in Target_PDS3 | 403 |
| team_name in PDS_Affiliate | 403 |
| telephone_number in PDS_Affiliate | 404 |
| telescope_altitude in Telescope | 404 |
| telescope_latitude in Telescope | 405 |
| telescope_longitude in Telescope | 405 |
| title in Composite_Structure | 405 |
| title in Identification_Area | 405 |
| title in Property_Map | 406 |
| title in Property_Maps | 406 |
| title in Terminological_Entry_SKOS | 406 |
| transfer_manifest_checksum in Information_Package_Component | 407 |
| type in Airborne *Deprecated* | 407 |
| type in DD_Attribute_Full | 408 |
| type in DD_Class_Full | 408 |
| type in Facility | 408 |
| type in Instrument *Deprecated* | 409 |
| type in Instrument_Host | 412 |
| type in Investigation | 413 |
| type in Investigation_Area | 414 |
| type in Observing_System_Component | 415 |
| type in Primary_Result_Summary *Deprecated* | 416 |
| type in Quaternion | 417 |
| type in Resource | 418 |
| type in Target | 419 |
| type in Target_Identification | 420 |
| type in Unit_Of_Measure | 422 |
| type in Units_of_Acceleration | 422 |
| type in Units_of_Amount_Of_Substance | 423 |
| type in Units_of_Angle | 423 |
| type in Units_of_Angular_Velocity | 423 |
| type in Units_of_Area | 424 |
| type in Units_of_Current | 424 |
| type in Units_of_Energy | 424 |
| type in Units_of_Frame_Rate | 425 |
| type in Units_of_Frequency | 425 |
| type in Units_of_Length | 425 |
| type in Units_of_Map_Scale *Deprecated* | 426 |
| type in Units_of_Mass | 426 |
| type in Units_of_Misc | 426 |
| type in Units_of_None | 427 |
| type in Units_of_Optical_Path_Length | 427 |

| | |
|----------------------------------------------------|-----|
| type in Units_of_Pixel_Resolution_Angular | 427 |
| type in Units_of_Pixel_Resolution_Linear | 428 |
| type in Units_of_Pixel_Resolution_Map | 428 |
| type in Units_of_Pixel_Scale_Angular | 429 |
| type in Units_of_Pixel_Scale_Linear | 429 |
| type in Units_of_Pixel_Scale_Map | 429 |
| type in Units_of_Pressure | 430 |
| type in Units_of_Radiance | 430 |
| type in Units_of_Rates | 430 |
| type in Units_of_Solid_Angle | 431 |
| type in Units_of_Spectral_Irradiance | 431 |
| type in Units_of_Spectral_Radiance | 431 |
| type in Units_of_Storage | 432 |
| type in Units_of_Temperature | 432 |
| type in Units_of_Time | 432 |
| type in Units_of_Velocity | 433 |
| type in Units_of_Voltage | 433 |
| type in Units_of_Volume | 433 |
| type in Units_of_Wavenumber | 434 |
| type in Vector | 434 |
| type_description in Composite_Structure | 434 |
| unit in Axis_Array *Deprecated* | 435 |
| unit in Element_Array | 435 |
| unit in Field_Binary | 435 |
| unit in Field_Bit | 435 |
| unit in Field_Character | 436 |
| unit in Field_Delimited | 436 |
| unit in Vector_Component | 436 |
| unit_id in Unit_Of_Measure | 437 |
| unit_id in Units_of_Acceleration | 437 |
| unit_id in Units_of_Amount_Of_Substance | 437 |
| unit_id in Units_of_Angle | 438 |
| unit_id in Units_of_Angular_Velocity | 438 |
| unit_id in Units_of_Area | 439 |
| unit_id in Units_of_Current | 439 |
| unit_id in Units_of_Energy | 439 |
| unit_id in Units_of_Frame_Rate | 440 |
| unit_id in Units_of_Frequency | 440 |
| unit_id in Units_of_Length | 440 |
| unit_id in Units_of_Map_Scale *Deprecated* | 441 |
| unit_id in Units_of_Mass | 442 |
| unit_id in Units_of_Misc | 442 |
| unit_id in Units_of_None | 442 |
| unit_id in Units_of_Optical_Path_Length | 443 |
| unit_id in Units_of_Pixel_Resolution_Angular | 443 |
| unit_id in Units_of_Pixel_Resolution_Linear | 443 |
| unit_id in Units_of_Pixel_Resolution_Map | 444 |
| unit_id in Units_of_Pixel_Scale_Angular | 444 |
| unit_id in Units_of_Pixel_Scale_Linear | 445 |
| unit_id in Units_of_Pixel_Scale_Map | 445 |
| unit_id in Units_of_Pressure | 446 |
| unit_id in Units_of_Radiance | 446 |
| unit_id in Units_of_Rates | 447 |
| unit_id in Units_of_Solid_Angle | 447 |
| unit_id in Units_of_Spectral_Irradiance | 447 |
| unit_id in Units_of_Spectral_Radiance | 448 |
| unit_id in Units_of_Storage | 449 |
| unit_id in Units_of_Temperature | 449 |

| | |
|----------------------------------------------------------|-----|
| unit_id in Units_of_Time | 450 |
| unit_id in Units_of_Velocity | 450 |
| unit_id in Units_of_Voltage | 451 |
| unit_id in Units_of_Volume | 451 |
| unit_id in Units_of_Wavenumber | 451 |
| unit_of_measure_type in DD_Value_Domain | 452 |
| unit_of_measure_type in DD_Value_Domain_Full | 454 |
| unknown_constant in Special_Constants | 456 |
| update_purpose in Update *Deprecated* *Deprecated* | 456 |
| url in External_Reference_Extended | 456 |
| url in Resource | 457 |
| url in Service | 457 |
| users_manual_id in Software | 457 |
| valid_maximum in Special_Constants | 458 |
| valid_minimum in Special_Constants | 458 |
| validation_format in Field_Character | 458 |
| value in DD_Permissible_Value | 459 |
| value in DD_Permissible_Value_Full | 459 |
| value in Quaternion_Component | 459 |
| value in Vector_Component | 460 |
| value_begin_date in DD_Permissible_Value_Full | 460 |
| value_data_type in DD_Value_Domain | 460 |
| value_data_type in DD_Value_Domain_Full | 462 |
| value_end_date in DD_Permissible_Value_Full | 464 |
| value_meaning in DD_Permissible_Value | 464 |
| value_meaning in DD_Permissible_Value_Full | 465 |
| value_offset in Band_Bin *Deprecated* | 465 |
| value_offset in Element_Array | 465 |
| value_offset in Field_Binary | 466 |
| value_offset in Field_Bit | 466 |
| value_offset in Field_Character | 466 |
| value_offset in Field_Delimited | 467 |
| vector_components in Vector | 467 |
| version_id in DD_Attribute | 467 |
| version_id in DD_Attribute_Full | 467 |
| version_id in DD_Class | 468 |
| version_id in DD_Class_Full | 468 |
| version_id in Identification_Area | 468 |
| version_id in Instrument_Host *Deprecated* | 469 |
| version_id in Modification_Detail | 469 |
| version_id in Service | 469 |
| version_id in Software *Deprecated* | 470 |
| volume_de_fullname in Volume_PDS3 | 470 |
| volume_format in Volume_PDS3 | 470 |
| volume_id in Volume_PDS3 | 470 |
| volume_name in Volume_PDS3 | 471 |
| volume_series_name in Volume_Set_PDS3 | 471 |
| volume_set_id in Volume_PDS3 | 471 |
| volume_set_id in Volume_Set_PDS3 | 472 |
| volume_set_name in Volume_Set_PDS3 | 472 |
| volume_size in Volume_PDS3 | 472 |
| volume_version_id in Volume_PDS3 | 473 |
| volumes in Volume_Set_PDS3 | 473 |
| wavelength_range in Science_Facets | 473 |
| x in Vector_Cartesian_3 | 474 |
| xml_schema_base_type in ASCII_AnyURI | 474 |
| xml_schema_base_type in ASCII_BibCode | 475 |
| xml_schema_base_type in ASCII_Boolean | 475 |

| | |
|----------------------------------------------------------------|-----|
| xml_schema_base_type in ASCII_DOI | 475 |
| xml_schema_base_type in ASCII_Date *Deprecated* | 476 |
| xml_schema_base_type in ASCII_Date_DOY | 476 |
| xml_schema_base_type in ASCII_Date_Time *Deprecated* | 477 |
| xml_schema_base_type in ASCII_Date_Time_DOY | 477 |
| xml_schema_base_type in ASCII_Date_Time_Decimal_HHMM | 477 |
| xml_schema_base_type in ASCII_Date_Time_UTC | 477 |
| xml_schema_base_type in ASCII_Date_Time_UTC *Deprecated* | 478 |
| xml_schema_base_type in ASCII_Date_Time_YMD | 478 |
| xml_schema_base_type in ASCII_Date_Time_YMD_UTC | 479 |
| xml_schema_base_type in ASCII_Date_YMD | 479 |
| xml_schema_base_type in ASCII_Directory_Path_Name | 479 |
| xml_schema_base_type in ASCII_File_Name | 480 |
| xml_schema_base_type in ASCII_File_Specification_Name | 480 |
| xml_schema_base_type in ASCII_Integer | 480 |
| xml_schema_base_type in ASCII_LID | 481 |
| xml_schema_base_type in ASCII_LIDVID | 481 |
| xml_schema_base_type in ASCII_LIDVID_LID | 481 |
| xml_schema_base_type in ASCII_Local_Identifier | 482 |
| xml_schema_base_type in ASCII_Local_Identifier_Reference | 482 |
| xml_schema_base_type in ASCII_MD5_Checksum | 483 |
| xml_schema_base_type in ASCII_NonNegative_Integer | 483 |
| xml_schema_base_type in ASCII_Numeric_Base16 | 483 |
| xml_schema_base_type in ASCII_Numeric_Base2 | 484 |
| xml_schema_base_type in ASCII_Numeric_Base8 | 484 |
| xml_schema_base_type in ASCII_Real | 485 |
| xml_schema_base_type in ASCII_Short_String_Collapsed | 485 |
| xml_schema_base_type in ASCII_Short_String_Preserved | 485 |
| xml_schema_base_type in ASCII_String | 486 |
| xml_schema_base_type in ASCII_Text_Collapsed | 486 |
| xml_schema_base_type in ASCII_Text_Preserved | 486 |
| xml_schema_base_type in ASCII_Time | 487 |
| xml_schema_base_type in ASCII_VID | 487 |
| xml_schema_base_type in Character_Data_Type | 488 |
| xml_schema_base_type in UTF8_Short_String_Collapsed | 488 |
| xml_schema_base_type in UTF8_Short_String_Preserved | 488 |
| xml_schema_base_type in UTF8_String | 489 |
| xml_schema_base_type in UTF8_Text_Preserved | 489 |
| y in Vector_Cartesian_3 | 489 |
| z in Vector_Cartesian_3 | 490 |
| 10. Attributes in the Rings discipline namespace | 491 |
| 11. Attributes in the Imaging discipline namespace | 492 |
| 12. Attributes in the Cartographic namespace | 493 |
| 13. Attributes in the Display namespace | 494 |
| 14. Data Types in the pds namespace | 495 |
| ASCII_AnyURI | 495 |
| ASCII_BibCode | 495 |
| ASCII_Boolean | 495 |
| ASCII_DOI | 495 |
| ASCII_Date | 496 |
| ASCII_Date_DOY | 496 |
| ASCII_Date_Time | 496 |
| ASCII_Date_Time_DOY | 497 |
| ASCII_Date_Time_Decimal_HHMM | 497 |
| ASCII_Date_Time_UTC | 498 |
| ASCII_Date_Time_YMD | 499 |
| ASCII_Date_Time_YMD_UTC | 499 |
| ASCII_Date_YMD | 500 |
| ASCII_Directory_Path_Name | 500 |

| | |
|-------------------------------------------------|-----|
| ASCII_File_Name | 500 |
| ASCII_File_Specification_Name | 500 |
| ASCII_Integer | 501 |
| ASCII_LID | 501 |
| ASCII_LIDVID | 501 |
| ASCII_LIDVID_LID | 501 |
| ASCII_Local_Identifier | 502 |
| ASCII_Local_Identifier_Reference | 502 |
| ASCII_MD5_Checksum | 502 |
| ASCII_NonNegative_Integer | 502 |
| ASCII_Numeric_Base16 | 503 |
| ASCII_Numeric_Base2 | 503 |
| ASCII_Numeric_Base8 | 503 |
| ASCII_Real | 503 |
| ASCII_Short_String_Collapsed | 504 |
| ASCII_Short_String_Preserved | 504 |
| ASCII_String | 504 |
| ASCII_Text_Collapsed | 504 |
| ASCII_Text_Preserved | 505 |
| ASCII_Time | 505 |
| ASCII_VID | 505 |
| Binary_Data_Type | 505 |
| Character_Data_Type | 506 |
| Complex | 506 |
| ComplexLSB16 | 506 |
| ComplexLSB8 | 506 |
| ComplexMSB16 | 507 |
| ComplexMSB8 | 507 |
| Data_Type | 507 |
| Decimal_Integer | 507 |
| Decimal_Real | 507 |
| IEEE754LSBDouble | 508 |
| IEEE754LSBSingle | 508 |
| IEEE754MSBDouble | 508 |
| IEEE754MSBSingle | 508 |
| SignedBitString | 509 |
| SignedByte | 509 |
| SignedLSB2 | 509 |
| SignedLSB4 | 509 |
| SignedLSB8 | 509 |
| SignedMSB2 | 510 |
| SignedMSB4 | 510 |
| SignedMSB8 | 510 |
| UTF8_Short_String_Collapsed | 510 |
| UTF8_Short_String_Preserved | 511 |
| UTF8_String | 511 |
| UTF8_Text_Preserved | 511 |
| UnsignedBitString | 511 |
| UnsignedByte | 511 |
| UnsignedLSB2 | 512 |
| UnsignedLSB4 | 512 |
| UnsignedLSB8 | 512 |
| UnsignedMSB2 | 512 |
| UnsignedMSB4 | 513 |
| UnsignedMSB8 | 513 |
| 15. Units of Measure in the pds namespace | 514 |
| Unit_Of_Measure | 514 |
| Units_of_Acceleration | 514 |

| | |
|-----------------------------------------|-----|
| Units_of_Amount_Of_Substance | 514 |
| Units_of_Angle | 514 |
| Units_of_Angular_Velocity | 515 |
| Units_of_Area | 515 |
| Units_of_Current | 515 |
| Units_of_Energy | 515 |
| Units_of_Frame_Rate | 515 |
| Units_of_Frequency | 516 |
| Units_of_Length | 516 |
| Units_of_Map_Scale | 516 |
| Units_of_Mass | 517 |
| Units_of_Misc | 517 |
| Units_of_None | 517 |
| Units_of_Optical_Path_Length | 517 |
| Units_of_Pixel_Resolution_Angular | 517 |
| Units_of_Pixel_Resolution_Linear | 518 |
| Units_of_Pixel_Resolution_Map | 518 |
| Units_of_Pixel_Scale_Angular | 518 |
| Units_of_Pixel_Scale_Linear | 519 |
| Units_of_Pixel_Scale_Map | 519 |
| Units_of_Pressure | 519 |
| Units_of_Radiance | 520 |
| Units_of_Rates | 520 |
| Units_of_Solid_Angle | 520 |
| Units_of_Spectral_Irradiance | 520 |
| Units_of_Spectral_Radiance | 521 |
| Units_of_Storage | 521 |
| Units_of_Temperature | 521 |
| Units_of_Time | 522 |
| Units_of_Velocity | 522 |
| Units_of_Voltage | 522 |
| Units_of_Volume | 523 |
| Units_of_Wavenumber | 523 |

Chapter 1. Introduction

The Data Dictionary defines the organization and components of product labels. Components of a product label include classes and their attributes.

Audience

The Data Dictionary - Abridged - has been abstracted from the unabridged version with the needs of data providers and data end users in mind. It contains full definitions but not all the fine detail or repetition necessary to support the underlying Information Model.

Acknowledgements

The Data Dictionary and the Information Model is a joint effort involving discipline experts functioning as a data design working group.

Scope

The Data Dictionary defines the pds and discipline level classes and attributes used to create product labels. It also defines the meta-attributes (i.e. attributes about attributes) used to define attributes. This abridged version includes only one entry for each attribute where the unabridge version includes an entry for each use of an attribute in a class.

Applicable Documents

Controlling Documents

- Information Model Specification - The Information Model is used as the source for class, attribute, and data type definitions. The model is presented in document format as the Information Model Specification.
- ISO/IEC 11179:3 Registry Metamodel and Basic Attributes Specification, 2003. - The ISO/IEC 11179 specification provides the schema for the data dictionary.

Reference Documents

- Planetary Science Data Dictionary - The online version of the PDS3 data dictionary was used as the source for a few data elements being carried over from the PDS3 data standards.

Terminology

This document uses very specific engineering terminology to describe the various structures involved. It is particularly important that readers who have absorbed the Standards Reference bear in mind that terms which are familiar in that context can have very different meanings in the present document.

Following are some definitions of essential terms used throughout this document.

- An *attribute* is a property or characteristic that provides a unit of information. For example, 'color' and 'length' are possible attributes.
- A *class* is a set of attributes (including a name) which defines a family. A class is generic - a template from which individual members of the family may be constructed.

- A *conceptual object* is an object which is intangible (and, because it is intangible, does not fit into a digital archive). Examples of 'conceptual objects' include the Cassini mission and NASA's strategic plan for solar system exploration. Note that a PDF describing the Cassini mission is a digital object, not a conceptual object (nor a component of a conceptual object).
- A *data element* is a unit of data for which the definition, identification, representation and *permissible values* are specified by means of a set of attributes. For example, the concept of a *calibration_lamp_state_flag* is used in the PDS archive to indicate whether the lamp used for onboard camera calibration was turned on or off during the capture of an image. The *data element* aspect of this concept is the named attribute (or data element) *calibration_lamp_state_flag*.
- A *data object* is a physical, conceptual, or digital object.
- A *digital object* is an object which is real data - for example, a binary image of a redwood tree or an ASCII table of atmospheric composition versus altitude.
- *Formal* as used in the definition of attributes that are names indicates that an established procedure was involved in creating the name.
- A *unique identifier* is a special type of identifier used to provide a reference number which is unique in a context.
- *Local* refers to the context within a single label.
- *Logical* as used in the definition of logical identifier indicates that the identifier logically groups a set of objects.
- A *physical object* is an object which is physical or tangible (and, therefore, does not itself fit into a digital archive). Examples of 'physical objects' include the planet Saturn and the Venus Express magnetometer. Note that an ASCII file describing Saturn is a digital object, not a physical object (nor a component of a physical object).
- A *resource* is the target (referent) of any Uniform Resource Identifier; the thing to which a URI points.

Chapter 2. Product Classes in the pds namespace.

These classes define the products.

Ingest_LDD

| Name: Ingest_LDD | | | Version Id: 1.1.0.0 |
|----------------------------------------------------------------------------------------------------------|-----------------------------|----------------|---------------------|
| <i>Description:</i> The Ingest_LDD class provides a form for collecting class and attribute definitions. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Ingest_LDD | | | |
| Attribute(s) | Name | Cardinality | Value |
| | name | 1..1 | None |
| | ldd_version_id | 1..1 | None |
| | full_name | 1..1 | None |
| | steward_id | 1..1 | None |
| | namespace_id | 1..1 | None |
| | external_property_maps_id | 0..Unbounded | None |
| | comment | 0..1 | None |
| | last_modification_date_time | 1..1 | None |
| Association(s) | Name | Cardinality | Class |
| | data_object | 1..1 | Conceptual_Object |
| | local_attribute | 0..Unbounded | DD_Attribute |
| | local_class | 0..Unbounded | DD_Class |
| | local_rule | 0..Unbounded | DD_Rule |
| | has_Property_Maps | 0..Unbounded | Property_Maps |
| <i>Referenced from:</i> None | | | |

Product_AIP

| Name: Product_AIP | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|-----------------------------------|----------------|-------------------------------|
| <i>Description:</i> The Product AIP class defines a product for the Archival Information Package. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_AIP | | | |
| <i>No Attributes</i> | | | |
| Association(s) | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | has_Information_Package_Component | 1..Unbounded | Information_Package_Component |

| Name: Product_AIP | | | Version Id: 1.0.0.0 |
|------------------------------|---------------------|------|------------------------------|
| | product_data_object | 1..1 | Archival_Information_Package |
| <i>Referenced from:</i> None | | | |

Product_Ancillary

| Name: Product_Ancillary | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product_Ancillary class defines a product that contains data that are supplementary to observational data and cannot reasonably be associated with any other non-observational data class. Use of Product_Ancillary must be approved by the curating node. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Ancillary | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 0..1 | Context_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..Unbounded | File_Area_Ancillary |
| <i>Referenced from:</i> None | | | |

Product_Attribute_Definition

| Name: Product_Attribute_Definition | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product Attribute Definition provides an attribute definition in XML encoding. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Attribute_Definition | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | DD_Attribute_Full |
| | <i>Referenced from:</i> None | | |

Product_Browse

| Name: Product_Browse | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product Browse class defines a product consisting of one encoded byte stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Browse | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |

| Name: Product_Browse | | | Version Id: 1.0.0.0 |
|------------------------------|----------------|--------------|----------------------------|
| | context_area | 0..1 | Context_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..Unbounded | File_Area_Browse |
| <i>Referenced from:</i> None | | | |

Product_Bundle

| Name: Product_Bundle | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> A Product_Bundle is an aggregate product and has a table of references to one or more collections. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Bundle | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 0..1 | Context_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Bundle |
| | file_area | 0..1 | File_Area_Text |
| | member_entry | 1..Unbounded | Bundle_Member_Entry |
| <i>Referenced from:</i> None | | | |

Product_Class_Definition

| Name: Product_Class_Definition | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product Class Definition provides a class definition in XML encoding. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Class_Definition | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | DD_Class_Full |
| <i>Referenced from:</i> None | | | |

Product_Collection

| Name: Product_Collection | | | Version Id: 1.1.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> A Product_Collection has a table of references to one or more basic products. The references are stored in a table called the inventory. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Collection | | | |

| Name: Product_Collection | | | Version Id: 1.1.0.0 |
|---------------------------------|-------------------------|--------------------|----------------------------|
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 0..1 | Context_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Collection |
| | file_area_inventory | 1..1 | File_Area_Inventory |
| <i>Referenced from:</i> None | | | |

Product_Context

| Name: Product_Context | | | Version Id: 1.1.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Product Context class describes something that provides context and provenance for an observational product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Context | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | has_discipline_area | 0..1 | Discipline_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Agency, Airborne *Deprecated*, Facility, Instrument, Instrument_Host, Investigation, Node, Other, PDS_Affiliate, PDS_Guest, Resource, Target, Telescope |
| <i>Referenced from:</i> None | | | |

Product_DIP

| Name: Product_DIP | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|-----------------------------------|
| <i>Description:</i> The Product DIP class defines a product for the Dissemination Information Package. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_DIP | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | has_Information_Package_Component | 1..Unbounded | Information_Package_Component |
| | product_data_object | 1..1 | Dissemination_Information_Package |

| | |
|------------------------------|----------------------------|
| Name: Product_DIP | Version Id: 1.0.0.0 |
| <i>Referenced from:</i> None | |

Product_DIP_Deep_Archive

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|-------------------------------|
| Name: Product_DIP_Deep_Archive | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Product DIP_Deep_Archive class defines a product for the Dissemination Information Package for the deep archive. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_DIP_Deep_Archive | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | has_Information_Package_Component | 1..Unbounded | Information_Package_Component |
| | product_data_object | 1..1 | DIP_Deep_Archive |
| <i>Referenced from:</i> None | | | |

Product_Data_Set_PDS3

| | | | |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Data_Set_PDS3 | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Data Set PDS3 product is used to create proxy labels for the data sets in the PDS3 Data Set catalog. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Data_Set_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Data_Set_PDS3 |
| <i>Referenced from:</i> None | | | |

Product_Document

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Document | Version Id: 2.1.0.0 | | |
| <i>Description:</i> A Product Document is a product consisting of a single logical document that may comprise one or more document editions. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Document | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 0..1 | Context_Area |

| Name: Product_Document | | | Version Id: 2.1.0.0 |
|-------------------------------|----------------|------|----------------------------|
| | reference_list | 0..1 | Reference_List |
| | has_document | 1..1 | Document |
| <i>Referenced from:</i> None | | | |

Product_File_Repository

| Name: Product_File_Repository | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product File Repository class consists of a single text file. This product is used to register a file in a repository. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_File_Repository | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..1 | File_Area_Binary |
| <i>Referenced from:</i> None | | | |

Product_File_Text

| Name: Product_File_Text | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product File Text consists of a single text file with ASCII character encoding. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_File_Text | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..1 | File_Area_Text |
| <i>Referenced from:</i> None | | | |

Product_Instrument_Host_PDS3

| Name: Product_Instrument_Host_PDS3 | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> An Instrument Host product describes an instrument host. This product captures the PDS3 catalog instrument host information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Instrument_Host_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Instrument_Host_PDS3 |

| | |
|-------------------------------------------|----------------------------|
| Name: Product_Instrument_Host_PDS3 | Version Id: 1.0.0.0 |
| <i>Referenced from:</i> None | |

Product_Instrument_PDS3

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Instrument_PDS3 | Version Id: 1.0.0.0 | | |
| <i>Description:</i> An Instrument product describes an instrument. This product captures the PDS3 catalog instrument information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Instrument_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Instrument_PDS3 |
| <i>Referenced from:</i> None | | | |

Product_Metadata_Supplemental

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Metadata_Supplemental | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Product_Metadata_Supplemental class is used to provide new, and/or improved, metadata for some or all of the basic products in a single collection. More than one Product_Metadata_Supplemental may apply to any given collection, but a Product_Metadata_Supplemental may only be associated with a single collection. Each Product_Metadata_Supplemental will be a primary member of the collection to which it applies. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Metadata_Supplemental | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..1 | File_Area_Metadata |
| <i>Referenced from:</i> None | | | |

Product_Mission_PDS3

| | | | |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Mission_PDS3 | Version Id: 1.0.0.0 | | |
| <i>Description:</i> An Mission product describes a mission. This product captures the PDS3 catalog mission information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Mission_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |

| | | | |
|-----------------------------------|---------------------|------|----------------------------|
| Name: Product_Mission_PDS3 | | | Version Id: 1.0.0.0 |
| | product_data_object | 1..1 | Mission_PDS3 |
| <i>Referenced from:</i> None | | | |

Product_Native

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Native | Version Id: 1.2.0.0 | | |
| <i>Description:</i> Product_Native is used to describe digital objects in the original format returned by the spacecraft or experimental system when that format cannot be described using one of the PDS4 formats specified for observational data (tables or arrays, excluding Array_1D). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Native | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 0..1 | Context_Area |
| | reference_list | 1..1 | Reference_List |
| | file_area | 1..Unbounded | File_Area_Native |
| <i>Referenced from:</i> None | | | |

Product_Observational

| | | | |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|--------------------------------------|
| Name: Product_Observational | Version Id: 1.7.0.0 | | |
| <i>Description:</i> A Product_Observational is a set of one or more information objects produced by an observing system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Observational | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | observation_area | 1..1 | Observation_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..Unbounded | File_Area_Observational |
| | file_area_supplemental | 0..Unbounded | File_Area_Observational_Supplemental |
| <i>Referenced from:</i> None | | | |

Product_Proxy_PDS3

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Product_Proxy_PDS3 | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Product Proxy PDS3 class defines a product with enough information to register a PDS3 data product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Proxy_PDS3 | | | |

| Name: Product_Proxy_PDS3 | | | Version Id: 1.0.0.0 |
|---------------------------------|-------------------------|--------------------|----------------------------|
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..Unbounded | File_Area_Binary |
| <i>Referenced from:</i> None | | | |

Product_SIP

| Name: Product_SIP | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|--------------------------------|
| <i>Description:</i> The Product SIP class defines a product for the Submission Information Package. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_SIP | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | has_Information_Package_Component | 1..Unbounded | Information_Package_Component |
| | product_data_object | 1..1 | Submission_Information_Package |
| <i>Referenced from:</i> None | | | |

Product_SIP_Deep_Archive

| Name: Product_SIP_Deep_Archive | | | Version Id: 1.1.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|--------------------------------------------|
| <i>Description:</i> The Product SIP Deep Archive class defines a Submission Information Package (SIP) for the NASA planetary science deep archive. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_SIP_Deep_Archive | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | has_Information_Package_Component | 1..1 | Information_Package_Component_Deep_Archive |
| | product_data_object | 1..1 | SIP_Deep_Archive |
| | reference_list | 0..1 | Reference_List |
| <i>Referenced from:</i> None | | | |

Product_SPICE_Kernel

| Name: Product_SPICE_Kernel | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The Product SPICE Kernel class defines a SPICE kernel product. | | | |

| Name: Product_SPICE_Kernel | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------|-------------------------|----------------|----------------------------|
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_SPICE_Kernel | | | |
| <i>No Attributes</i> | | | |
| Association(s) | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 1..1 | Context_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..1 | File_Area_SPICE_Kernel |
| <i>Referenced from:</i> None | | | |

Product_Service

| Name: Product_Service | | | Version Id: 1.1.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|-------------------------------|
| <i>Description:</i> The Product Service class defines a product for registering services. Service descriptions from this product are used to register services as intrinsic registry objects. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_Service | | | |
| <i>No Attributes</i> | | | |
| Association(s) | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | product_data_object | 1..1 | Service |
| | reference_list | 0..1 | Reference_List |
| | file_area | 0..Unbounded | File_Area_Service_Description |
| <i>Referenced from:</i> None | | | |

Product_Software

| Name: Product_Software | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------|-------------------------|----------------|---------------------------------------------------|
| <i>Description:</i> Product Software is a product consisting of a set of one or more software formats. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_Software | | | |
| <i>No Attributes</i> | | | |
| Association(s) | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_description | 1..1 | Software |
| | software_format_set | 0..Unbounded | Software_Binary, Software_Script, Software_Source |
| <i>Referenced from:</i> None | | | |

Product_Subscription_PDS3

| | | | |
|-------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| Name: Product_Subscription_PDS3 | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The Product_Subscription_PDS3 class provides the list of subscriptions for a PDS3 subscriber. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Subscription_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | subscriber | 1..1 | Subscriber_PDS3 |
| | <i>Referenced from:</i> None | | |
| | | | |

Product_Target_PDS3

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| Name: Product_Target_PDS3 | | | Version Id: 1.0.0.0 |
| <i>Description:</i> A target product describes a target. This product captures a reduced set of the PDS3 catalog target information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Target_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Target_PDS3 |
| | <i>Referenced from:</i> None | | |
| | | | |

Product_Thumbnail

| | | | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| Name: Product_Thumbnail | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The Product_Thumbnail class defines a product consisting of one encoded byte stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product :: Product_Thumbnail | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..1 | File_Area_Encoded_Image |
| | <i>Referenced from:</i> None | | |
| | | | |

Product_Update *Deprecated*

| Name: Product_Update *Deprecated* | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|----------------------------------|
| <i>Description:</i> The Product Update class defines a product consisting of update information and optional references to other products. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Deprecated |
| <i>Class Hierarchy:</i> Product :: Product_Update *Deprecated* | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | product_data_object | 1..1 | Update *Deprecated* |
| | reference_list | 0..1 | Reference_List |
| | file_area | 0..1 | File_Area_Update *Deprecated* |
| <i>Referenced from:</i> None | | | |

Product_Volume_PDS3

| Name: Product_Volume_PDS3 | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------|------------------------------|----------------|---------------------|
| <i>Description:</i> A Product Volume PDS3 product captures the PDS3 volume information. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_Volume_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Volume_PDS3 |
| | <i>Referenced from:</i> None | | |

Product_Volume_Set_PDS3

| Name: Product_Volume_Set_PDS3 | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|------------------------------|----------------|---------------------|
| <i>Description:</i> A Product Volume Set PDS3 product captures the PDS3 volume set information. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_Volume_Set_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | reference_list | 0..1 | Reference_List |
| | product_data_object | 1..1 | Volume_Set_PDS3 |
| | <i>Referenced from:</i> None | | |

Product_XML_Schema

| Name: Product_XML_Schema | | Version Id: 1.2.0.0 | |
|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|
| <i>Description:</i> The Product_XML_Schema describes a resource used for the PDS4 implementation into XML. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_XML_Schema | | | |
| No Attributes | | | |
| Association(s) | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | context_area | 0..1 | Context_Area |
| | reference_list | 0..1 | Reference_List |
| | file_area | 1..Unbounded | File_Area_XML_Schema |
| <i>Referenced from:</i> None | | | |

Product_Zipped

| Name: Product_Zipped | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|---------------------|
| <i>Description:</i> The Product_Zipped is a product with references to other products. The referenced products and all associated products and files are packaged into a single ZIP file. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product :: Product_Zipped | | | |
| No Attributes | | | |
| Association(s) | Name | Cardinality | Class |
| | has_identification_area | 1..1 | Identification_Area |
| | internal_reference | 1..Unbounded | Internal_Reference |
| | has_zip | 1..1 | Zip |
| | file | 1..1 | File |
| <i>Referenced from:</i> None | | | |

Chapter 3. Support classes in the pds namespace.

The classes in this section are used by the product classes.

Agency

| Name: Agency | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Agency class provides a description of an entity that provides regional or national level governance over nodes within the federated Planetary Data System. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Agency | | | |
| Attribute(s) | Name | Cardinality | Value |
| | name | 1..1 | European Space Agency, Japan Aerospace Exploration Agency, National Aeronautics and Space Administration, Roscosmos State Corporation for Space Activities |
| | description | 1..1 | None |
| Association(s) | Name | Cardinality | Class |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Product_Context | | | |

Aggregation_Object

| Name: Aggregation_Object | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|--------------|----------------|---------------------|
| <i>Description:</i> The Aggregation Object class defines a Conceptual Object that is used to aggregate other objects. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Data_Object :: Conceptual_Object :: Aggregation_Object | | | |
| No Attributes | | | |
| No Associations | | | |
| <i>Referenced from:</i> None | | | |

Airborne *Deprecated*

| Name: Airborne *Deprecated* | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|---------------------|
| <i>Description:</i> The Airborne class provides a description of the physical object that transports a platform by or through air. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Deprecated |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Airborne *Deprecated* | | | |
| Attribute(s) | Name | Cardinality | Value |

| Name: Airborne *Deprecated* | | | | Version Id: 1.0.0.0 |
|-----------------------------------------|-------------|------|--|-----------------------------------------|
| | name | 0..1 | | None |
| | type | 0..1 | | Aircraft, Balloon, Suborbital Rocket |
| | description | 0..1 | | None |
| <i>No Associations</i> | | | | |
| <i>Referenced from:</i> Product_Context | | | | |

Alias

| Name: Alias | | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Alias class provides a single alternate name and identification for this product in this or some other archive or data system. | | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active | |
| <i>Class Hierarchy:</i> Product_Components :: Alias | | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> | |
| | alternate_id | 0..1 | | None |
| | alternate_title | 0..1 | | None |
| | comment | 0..1 | | None |
| <i>No Associations</i> | | | | |
| <i>Referenced from:</i> Alias_List | | | | |

Alias_List

| Name: Alias_List | | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Alias_List class provides a list of paired alternate names and identifications for this product in this or some other archive or data system. | | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active | |
| <i>Class Hierarchy:</i> Product_Components :: Alias_List | | | | |
| <i>No Attributes</i> | | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> | |
| | alias | 1..Unbounded | Alias | |
| <i>Referenced from:</i> Identification_Area | | | | |

Ancillary_Object

| Name: Ancillary_Object | | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Ancillary Object defines a Supplemental Object that cannot reasonably be classified as any other Supplemental Object. | | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active | |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object :: Ancillary_Object | | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> | |
| | bit_string | 1..1 | | None |
| <i>No Associations</i> | | | | |

Support classes in
the pds namespace.

| | |
|-------------------------------|----------------------------|
| Name: Ancillary_Object | Version Id: 1.0.0.0 |
| <i>Referenced from:</i> None | |

Archival_Information_Package

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Archival_Information_Package | Version Id: 1.0.0.0 |
| <i>Description:</i> The Archival Information Package (AIP) class defines an Information Package consisting of the Content Information and the associated Preservation Description Information (PDI), which is preserved within an archive that conforms to the Open Archive Information System (OAIS) Reference Model. | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package :: Archival_Information_Package | |
| <i>Attribute(s)</i> | <i>Name</i> |
| | description |
| <i>No Associations</i> | |
| <i>Referenced from:</i> Product_AIP | |

Archive_Support_Object

| | |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Archive_Support_Object | Version Id: 1.0.0.0 |
| <i>Description:</i> The Archive Support defines a Supplemental Object that is used by the system for an archive function. | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object :: Archive_Support_Object | |
| <i>Attribute(s)</i> | <i>Name</i> |
| | bit_string |
| <i>No Associations</i> | |
| <i>Referenced from:</i> None | |

Array

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Array | Version Id: 2.0.0.0 |
| <i>Description:</i> The Array class defines a homogeneous N-dimensional array of scalars. The Array class is the parent class for all n-dimensional arrays of scalars. | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array | |
| <i>Attribute(s)</i> | <i>Name</i> |
| | name |
| | local_identifier |
| | md5_checksum |
| | offset |
| | axes |
| | axis_index_order |

| Name: Array | | | Version Id: 2.0.0.0 |
|-----------------------|------------------------------|--------------------|----------------------------|
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 1..Unbounded | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |

Referenced from: File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental

Array_1D *Deprecated*

| Name: Array_1D *Deprecated* | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 1D class is the parent class for all one dimensional array based classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_1D *Deprecated* | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 1 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 1..1 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |

Referenced from: File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental

Array_2D

| Name: Array_2D | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The Array 2D class is the parent class for all two dimensional array based classes. | | | |

| Name: Array_2D | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_2D | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 2 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 2..2 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Array_2D_Image

| Name: Array_2D_Image | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 2D Image class is an extension of the Array 2D class and defines a two dimensional image. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_2D :: Array_2D_Image | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 2 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 2..2 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |

| Name: Array_2D_Image | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|----------------------------------|
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |
| | has_Display_2d_Image | 0..1 | Display_2D_Image *Deprecated* |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Array_2D_Map

| Name: Array_2D_Map | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------------|
| <i>Description:</i> The Array 2D Map class is an extension of the Array 2D class and defines a two dimensional map. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_2D :: Array_2D_Map | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 2 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 2..2 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |
| | has_Display_2d_Image | 0..1 | Display_2D_Image *Deprecated* |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Array_2D_Spectrum

| Name: Array_2D_Spectrum | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 2D Spectrum class is an extension of the Array 2D class and defines a two dimensional spectrum. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_2D :: Array_2D_Spectrum | | | |

| Name: Array_2D_Spectrum | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|----------------------------------|
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 2 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 2..2 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |
| | has_Display_2d_Image | 0..1 | Display_2D_Image *Deprecated* |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Array_3D

| Name: Array_3D | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 3D class is the parent class for all three dimensional array based classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_3D | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 3 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 3..3 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |

| Name: Array_3D | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|----------------------------|
| | local_internal_reference | 0..0 | Local_Internal_Reference |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Array_3D_Image

| Name: Array_3D_Image | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 3D Image class is an extension of the Array 3D class and defines a three dimensional image. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_3D :: Array_3D_Image | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 3 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 3..3 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Array_3D_Movie

| Name: Array_3D_Movie | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 3D Movie class is an extension of the Array 3D class and defines a movie as a set of two dimensional images in a time series. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_3D :: Array_3D_Movie | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |

| Name: Array_3D_Movie | | | Version Id: 1.0.0.0 |
|-----------------------------|------------------------------|--------------------|----------------------------|
| | axes | 1..1 | 3 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 3..3 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |

Referenced from: File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental

Array_3D_Spectrum

| Name: Array_3D_Spectrum | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Array 3D Spectrum class is an extension of the Array 3D class and defines a three dimensional spectrum. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Array :: Array_3D :: Array_3D_Spectrum | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | axes | 1..1 | 3 |
| | axis_index_order | 1..1 | Last Index Fastest |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Element_Array | 1..1 | Element_Array |
| | has_Axis_Array | 3..3 | Axis_Array |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Object_Statistics |
| | data_object | 1..1 | Digital_Object |
| | local_internal_reference | 0..0 | Local_Internal_Reference |

Referenced from: File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental

Axis_Array

| <i>Name:</i> Axis_Array | | | <i>Version Id:</i> 1.3.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Axis Array class is used as a component of the array class and defines an axis of the array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Axis_Array | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | axis_name | 1..1 | None |
| | local_identifier | 0..1 | None |
| | elements | 1..1 | None |
| | unit *Deprecated* | 0..1 | None |
| | sequence_number | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Band_Bin_Set | 0..1 | Band_Bin_Set *Deprecated* |
| <i>Referenced from:</i> Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum | | | |

Band_Bin *Deprecated*

| <i>Name:</i> Band_Bin *Deprecated* | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Band_Bin class specifies the characteristics of an individual spectral band in a spectral cube. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Band_Bin *Deprecated* | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | band_number | 1..1 | None |
| | band_width | 1..1 | None |
| | center_wavelength | 1..1 | None |
| | detector_number | 0..1 | None |
| | filter_number | 0..1 | None |
| | grating_position | 0..1 | None |
| | original_band | 0..1 | None |
| | standard_deviation | 0..1 | None |
| | scaling_factor | 0..1 | None |
| | value_offset | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Band_Bin_Set *Deprecated* | | | |

Band_Bin_Set *Deprecated*

| Name: Band_Bin_Set *Deprecated* | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|---------------------------|
| <i>Description:</i> The Band_Bin_Set class contains the spectral characteristics for all the spectral bands in a qube. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Band_Bin_Set *Deprecated* | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_band_bin | 1..Unbounded | Band_Bin *Deprecated* |
| <i>Referenced from:</i> Axis_Array | | | |

Bundle

| Name: Bundle | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Bundle class describes a collection of collections. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Bundle | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bundle_type | 1..1 | Archive, Supplemental |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Product_Bundle | | | |

Bundle_Member_Entry

| Name: Bundle_Member_Entry | | Version Id: 1.1.0.0 | |
|------------------------------------------------------------------------------------------------|---------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Bundle Member Entry class provides a member reference to a collection. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Bundle_Member_Entry | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | lid_reference | 1..1 | None |
| | lidvid_reference | 1..1 | None |
| | member_status | 1..1 | Primary, Secondary |
| | reference_type | 1..1 | bundle_has_browse_collection, bundle_has_calibration_collection, bundle_has_context_collection, bundle_has_data_collection, bundle_has_document_collection, bundle_has_geometry_col- |

| Name: Bundle_Member_Entry | | | Version Id: 1.1.0.0 |
|----------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------|
| | | | lection, bundle_has_member_collection, bundle_has_miscellaneous_collection, bundle_has_schema_collection, bundle_has_spice_kernel_collection |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_Bundle | | | |

Byte_Stream

| Name: Byte_Stream | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Byte Stream class defines a stream of bytes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Checksum_Manifest

| Name: Checksum_Manifest | | | Version Id: 1.1.0.0 |
|---------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------------------------------------|
| <i>Description:</i> The Checksum_Manifest class defines a two column table for file references and checksums. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Checksum_Manifest | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | MD5Deep 4.n |
| | description | 0..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Checksum_Manifest | | | |

Citation_Information

| Name: Citation_Information | | | Version Id: 1.2.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Citation_Information class provides specific fields often used in citing the product in journal articles, abstract services, and other reference contexts. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Citation_Information | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | author_list | 0..1 | None |
| | editor_list | 0..1 | None |
| | publication_year | 1..1 | None |
| | doi | 0..1 | None |
| | keyword | 0..Unbounded | None |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Identification_Area | | | |

Collection

| Name: Collection | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|---------------------|-----------------------|-------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Collection class provides a description of a set of products. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Collection | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | collection_type | 1..1 | Browse, Calibration, Context, Data, Document, Geometry, Miscellaneous, SPICE Kernel, XML Schema |
| | description | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_Collection | | | |

Composite_Structure

| Name: Composite_Structure | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Composite Structure class provides a general framework for defining a structure that consists of two or more simpler structures | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Composite_Structure | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | title | 0..1 | None |
| | local_identifier | 0..1 | None |
| | type_description | 0..1 | None |

Support classes in
the pds namespace.

| Name: Composite_Structure | | | Version Id: 1.0.0.0 |
|----------------------------------|------------------------|--------------------|----------------------------|
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Local_ID_Reference | 1..Unbounded | Local_ID_Reference |
| | has_Local_ID_Relation | 1..Unbounded | Local_ID_Relation |

Referenced from: File_Area_Observational, File_Area_Observational_Supplemental

Conceptual_Context_Object

| Name: Conceptual_Context_Object | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Conceptual Context Object class defines a Conceptual Object that is used to provide contextual information for an Observational Object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Conceptual_Object :: Conceptual_Context_Object | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Conceptual_Object

| Name: Conceptual_Object | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Conceptual Object class defines a non-tangible object that is also not a digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Conceptual_Object | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Agency, Bundle, DD_Attribute, DD_Attribute_Full, DD_Class, DD_Class_Full, Data_Set_PDS3, Field_Statistics, Ingest_LDD, Investigation, Mission_PDS3, Node, Object_Statistics, Observing_System, Other, Quaternion, Resource, Service, Update *Deprecated*, Vector, Volume_PDS3, Volume_Set_PDS3 | | | |

Context_Area

| Name: Context_Area | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------|--------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Context Area provides context information for a product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Context_Area | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | comment | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_time_coordinates | 0..1 | Time_Coordinates |
| | has_primary_result_description | 0..1 | Primary_Result_Summary |

Support classes in
the pds namespace.

| Name: Context_Area | | | Version Id: 1.0.0.0 |
|---------------------------|---------------------------|--------------|----------------------------|
| | has_investigation_area | 0..Unbounded | Investigation_Area |
| | has_observing_system | 0..Unbounded | Observing_System |
| | has_target_identification | 0..Unbounded | Target_Identification |
| | has_mission_area | 0..1 | Mission_Area |
| | has_discipline_area | 0..1 | Discipline_Area |

Referenced from: Product_Ancillary, Product_Browse, Product_Bundle, Product_Collection, Product_Document, Product_Native, Product_SPICE_Kernel, Product_XML_Schema

DD_Association

| Name: DD_Association | | | Version Id: 1.2.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------|----------------------------------------------------------------------------------|
| <i>Description:</i> The DD_Association class defines the association between two classes or a class and an attribute in a data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Association | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | identifier_reference | 1..Unbounded | None |
| | local_identifier *Deprecated* | 0..Unbounded | None |
| | reference_type | 1..1 | attribute_of, component_of, extension_of, parent_of, restriction_of, subclass_of |
| | minimum_occurrences | 1..1 | None |
| | maximum_occurrences | 1..1 | None |
| | constant_value | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | dd_attribute_reference | 0..1 | DD_Attribute_Reference |
| | dd_class_reference | 0..1 | DD_Class_Reference |

Referenced from: DD_Class, DD_Class_Full

DD_Association_External *Deprecated*

| Name: DD_Association_External *Deprecated* | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-------------------------------------------|
| <i>Description:</i> The DD_Association_External class defines the association between classes and attributes within the local data dictionary and those external to the local data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Association_External *Deprecated* | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | namespace_id | 1..1 | None |
| | reference_type | 1..1 | attribute_of, component_of, extension_of, |

| Name: DD_Association_External *Deprecated* | | | Version Id: 1.1.0.0 |
|---------------------------------------------------|---------------------|------|----------------------------------------|
| | | | parent_of, restriction_of, subclass_of |
| | minimum_occurrences | 1..1 | None |
| | maximum_occurrences | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> DD_Class | | | |

DD_Attribute

| Name: DD_Attribute | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|----------------------|-----------------------|----------------------------|
| <i>Description:</i> The DD_Attribute class defines an attribute for a data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: DD_Attribute | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | version_id | 1..1 | None |
| | local_identifier | 1..1 | None |
| | nillable_flag | 1..1 | None |
| | submitter_name | 1..1 | None |
| | definition | 1..1 | None |
| | comment | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 0..Unbounded | Internal_Reference |
| | data_object | 1..1 | Conceptual_Object |
| | terminological_entry | 0..Unbounded | Terminological_Entry |
| | value_domain_entry | 1..1 | DD_Value_Domain |
| <i>Referenced from:</i> Ingest_LDD | | | |

DD_Attribute_Full

| Name: DD_Attribute_Full | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------------------------------|
| <i>Description:</i> The DD_Attribute_Full class provides a more complete definition of an attribute in the data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: DD_Attribute_Full | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | version_id | 1..1 | None |
| | class_name | 1..1 | None |
| | local_identifier | 1..1 | None |
| | steward_id | 1..1 | atm, geo, img, naif, ops, pds, ppi, rings, rs, sbn |

| Name: DD_Attribute_Full | | | Version Id: 1.0.0.0 |
|------------------------------------------------------|---------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | type | 1..1 | PDS3, PDS4 |
| | namespace_id | 1..1 | None |
| | nillable_flag | 1..1 | None |
| | submitter_name | 1..1 | None |
| | definition | 1..1 | None |
| | comment | 0..1 | None |
| | registered_by | 1..1 | None |
| | registration_authority_id | 1..1 | 0001_NASA_PDS_1 |
| | attribute_concept | 1..1 | Address, Angle, Attribute, Bit, Checksum, Collection, Constant, Cosine, Count, DOI, Delimiter, Description, Deviation, Direction, Distance, Duration, Factor, Flag, Format, Group, Home, ID, Latitude, Length, List, Location, Logical, Longitude, Mask, Maximum, Mean, Median, Minimum, Name, Note, Number, Offset, Order, Parallel, Password, Path, Pattern, Pixel, Quaternion, Radius, Ratio, Reference, Resolution, Role, Rotation, Scale, Sequence, Set, Size, Status, Summary, Syntax, Temperature, Text, Title, Type, Unit, Unknown, Value, Vector |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| | terminological_entry | 1..Unbounded | Terminological_Entry |
| | value_domain_entry | 0..1 | DD_Value_Domain_Full |
| <i>Referenced from:</i> Product_Attribute_Definition | | | |

DD_Attribute_Reference

| Name: DD_Attribute_Reference | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|----------------------------|
| <i>Description:</i> The DD Attribute Reference class provides a reference to an attribute using a name-space identifier and the attribute name. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Attribute_Reference | | | |

| Name: DD_Attribute_Reference | | | Version Id: 1.0.0.0 |
|-------------------------------------------------|--------------|--------------------|----------------------------|
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | namespace_id | 1..1 | None |
| | name | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> DD_Association, DD_Rule | | | |

DD_Class

| Name: DD_Class | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------|----------------------|-----------------------|---------------------------------------------------------|
| <i>Description:</i> The DD_Class class defines a class for a data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: DD_Class | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | version_id | 1..1 | None |
| | local_identifier | 1..1 | None |
| | submitter_name | 1..1 | None |
| | definition | 1..1 | None |
| | abstract_flag | 0..1 | None |
| | element_flag | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 0..Unbounded | Internal_Reference |
| | data_object | 1..1 | Conceptual_Object |
| | dd_association | 1..Unbounded | DD_Association, DD_Association_External *Deprecated* |
| | terminological_entry | 0..Unbounded | Terminological_Entry |
| <i>Referenced from:</i> Ingest_LDD | | | |

DD_Class_Full

| Name: DD_Class_Full | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------------------------------|
| <i>Description:</i> The DD_Class_Full class provides a more complete definition of a class for a data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: DD_Class_Full | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | version_id | 1..1 | None |
| | local_identifier | 1..1 | None |
| | steward_id | 1..1 | atm, geo, img, naif, ops, pds, ppi, rings, rs, sbn |

| Name: DD_Class_Full | | | Version Id: 1.0.0.0 |
|--------------------------------------------------|---------------------------|--------------------|----------------------------|
| | type | 1..1 | PDS3, PDS4 |
| | namespace_id | 1..1 | None |
| | submitter_name | 1..1 | None |
| | definition | 1..1 | None |
| | comment | 0..1 | None |
| | registered_by | 1..1 | None |
| | registration_authority_id | 1..1 | None |
| | abstract_flag | 0..1 | None |
| | element_flag | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| | dd_association | 0..Unbounded | DD_Association |
| | terminological_entry | 0..Unbounded | Terminological_Entry |
| <i>Referenced from:</i> Product_Class_Definition | | | |

DD_Class_Reference

| Name: DD_Class_Reference | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The DD Class Reference class provides a reference to a class using a namespace identifier and the class name. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Class_Reference | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | namespace_id | 1..1 | None |
| | name | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> DD_Association, DD_Rule | | | |

DD_Permissible_Value

| Name: DD_Permissible_Value | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------------------|----------------------|-----------------------|----------------------------|
| <i>Description:</i> The DD_Permissible_Value class lists permissible values and their meanings. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Permissible_Value | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | value | 1..1 | None |
| | value_meaning | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | terminological_entry | 0..Unbounded | Terminological_Entry |
| <i>Referenced from:</i> DD_Value_Domain | | | |

DD_Permissible_Value_Full

| Name: DD_Permissible_Value_Full | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------|-----------------------|
| <i>Description:</i> The DD_Permissible_Value_Full class lists permissible values, their meanings, and the dates when active. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Permissible_Value_Full | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | value | 1..1 | None |
| | value_meaning | 0..1 | None |
| | value_begin_date | 1..1 | None |
| | value_end_date | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | terminological_entry | 0..Unbounded | Terminological_Entry |
| <i>Referenced from:</i> DD_Value_Domain_Full | | | |

DD_Rule

| Name: DD_Rule | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------|------------------------|----------------------------|------------------------|
| <i>Description:</i> The DD_Rule class defines a Schematron rule for a data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: DD_Rule | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | local_identifier | 1..1 | None |
| | rule_context | 1..1 | None |
| | rule_assign | 0..Unbounded | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | dd_attribute_reference | 0..1 | DD_Attribute_Reference |
| | dd_class_reference | 0..1 | DD_Class_Reference |
| | rule_statement | 1..Unbounded | DD_Rule_Statement |
| <i>Referenced from:</i> Ingest_LDD | | | |

DD_Rule_Statement

| Name: DD_Rule_Statement | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------------------------|
| <i>Description:</i> The DD_Rule_Statement class defines a Schematron rule statement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: DD_Rule_Statement | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | rule_type | 1..1 | Assert, Assert Every, Assert If, Report |
| | rule_test | 1..1 | None |
| | rule_message | 1..1 | None |

| Name: DD_Rule_Statement | | | Version Id: 1.0.0.0 |
|---------------------------------|------------------|--------------|---------------------|
| | rule_description | 0..1 | None |
| | rule_value | 0..Unbounded | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> DD_Rule | | | |

DD_Value_Domain

| Name: DD_Value_Domain | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------|------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The DD_Value_Domain class defines an attribute's permissible values and their constraints. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Value_Domain | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | enumeration_flag | 1..1 | None |
| | value_data_type | 1..1 | ASCII_AnyURI, ASCII_BibCode, ASCII_Boolean, ASCII_DOI, ASCII_Date_DOY, ASCII_Date_Time_DOY, ASCII_Date_Time_DOY_UTC, ASCII_Date_Time_YMD, ASCII_Date_Time_YMD_UTC, ASCII_Date_YMD, ASCII_Directory_Path_Name, ASCII_File_Name, ASCII_File_Specification_Name, ASCII_Integer, ASCII_LID, ASCII_LIDVID, ASCII_LIDVID_LID, ASCII_MD5_Checksum, ASCII_NonNegative_Integer, ASCII_Numeric_Base16, ASCII_Numeric_Base2, ASCII_Numeric_Base8, ASCII_Real, ASCII_Short_String_Collapsed, ASCII_Short_String_Preserved, ASCII_Text_Collapsed, ASCII_Text_Preserved, ASCII_Time, ASCII_VID, UTF8_Short_String_Collapsed, UTF8_Short_String_Preserved, UTF8_Text_Preserved, Vector_ |

| Name: DD_Value_Domain | | | Version Id: 1.0.0.0 |
|------------------------------|----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | Cartesian_3, Vector_Cartesian_3_Acceleration, Vector_Cartesian_3_Pointing, Vector_Cartesian_3_Position, Vector_Cartesian_3_Velocity |
| | formation_rule | 0..1 | None |
| | minimum_characters | 0..1 | None |
| | maximum_characters | 0..1 | None |
| | minimum_value | 0..1 | None |
| | maximum_value | 0..1 | None |
| | pattern | 0..1 | None |
| | unit_of_measure_type | 0..1 | Units_of_Acceleration, Units_of_Amount_Of_Substance, Units_of_Angle, Units_of_Angular_Velocity, Units_of_Area, Units_of_Current, Units_of_Energy, Units_of_Frame_Rate, Units_of_Frequency, Units_of_Length, Units_of_Map_Scale, Units_of_Mass, Units_of_Misc, Units_of_None, Units_of_Optical_Path_Length, Units_of_Pixel_Resolution_Angular, Units_of_Pixel_Resolution_Linear, Units_of_Pixel_Resolution_Map, Units_of_Pixel_Scale_Angular, Units_of_Pixel_Scale_Linear, Units_of_Pixel_Scale_Map, Units_of_Pressure, Units_of_Radiance, Units_of_Rates, Units_of_Solid_Angle, Units_of_Spectral_Irradiance, Units_of_Spectral_Radiance, Units_of_Storage, Units_of_Temperature, Units_of_Time, Units_of_Velocity, Units_of_Voltage, Units_of_Volume, Units_of_Wavenumber |
| | specified_unit_id | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |

| Name: DD_Value_Domain | | | Version Id: 1.0.0.0 |
|--------------------------------------|-------------------|--------------|----------------------|
| | permissible_value | 0..Unbounded | DD_Permissible_Value |
| <i>Referenced from:</i> DD_Attribute | | | |

DD_Value_Domain_Full

| Name: DD_Value_Domain_Full | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|--------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The DD_Value_Domain_Full class provides a more complete definition of a attribute's value domain. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: DD_Value_Domain_Full | | | |
| Attribute(s) | Name | Cardinality | Value |
| | enumeration_flag | 1..1 | None |
| | value_data_type | 1..1 | ASCII_AnyURI, ASCII_BibCode, ASCII_Boolean, ASCII_DOI, ASCII_Date_DOY, ASCII_Date_Time_DOY, ASCII_Date_Time_DOY_UTC, ASCII_Date_Time_YMD, ASCII_Date_Time_YMD_UTC, ASCII_Date_YMD, ASCII_Directory_Path_Name, ASCII_File_Name, ASCII_File_Specification_Name, ASCII_Integer, ASCII_LID, ASCII_LIDVID, ASCII_LIDVID_LID, ASCII_MD5_Checksum, ASCII_NonNegative_Integer, ASCII_Numeric_Base16, ASCII_Numeric_Base2, ASCII_Numeric_Base8, ASCII_Real, ASCII_Short_String_Collapsed, ASCII_Short_String_Preserved, ASCII_Text_Collapsed, ASCII_Text_Preserved, ASCII_Time, ASCII_VID, UTF8_Short_String_Collapsed, UTF8_Short_String_Preserved, UTF8_Text_Preserved |
| | formation_rule | 0..1 | None |
| | minimum_characters | 0..1 | None |

| Name: DD_Value_Domain_Full | | | Version Id: 1.0.0.0 |
|-------------------------------------------|----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | maximum_characters | 0..1 | None |
| | minimum_value | 0..1 | None |
| | maximum_value | 0..1 | None |
| | pattern | 0..1 | None |
| | unit_of_measure_type | 0..1 | Units_of_Acceleration, Units_of_Amount_Of_Substance, Units_of_Angle, Units_of_Angular_Velocity, Units_of_Area, Units_of_Current, Units_of_Energy, Units_of_Frame_Rate, Units_of_Frequency, Units_of_Length, Units_of_Map_Scale, Units_of_Mass, Units_of_Misc, Units_of_None, Units_of_Optical_Path_Length, Units_of_Pixel_Resolution_Angular, Units_of_Pixel_Resolution_Linear, Units_of_Pixel_Resolution_Map, Units_of_Pixel_Scale_Angular, Units_of_Pixel_Scale_Linear, Units_of_Pixel_Scale_Map, Units_of_Pressure, Units_of_Radiance, Units_of_Rates, Units_of_Solid_Angle, Units_of_Spectral_Irradiance, Units_of_Spectral_Radiance, Units_of_Storage, Units_of_Temperature, Units_of_Time, Units_of_Velocity, Units_of_Voltage, Units_of_Volume, Units_of_Wavenumber |
| | conceptual_domain | 1..1 | Boolean, Integer, Name, Numeric, Real, Short_String, Text, Time, Type, Unknown |
| | specified_unit_id | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | permissible_value | 0..Unbounded | DD_Permissible_Value_Full |
| <i>Referenced from:</i> DD_Attribute_Full | | | |

DIP_Deep_Archive

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| Name: DIP_Deep_Archive | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The Dissemination Information Package Deep Archive class is an Information Package derived from one or more AIPs and is received by the National Space Science Data Center (NSSDC). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package :: DIP_Deep_Archive | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_DIP_Deep_Archive | | | |

Data_Object

| | | | |
|------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| Name: Data_Object | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The Data Object class defines a thing about which almost nothing is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Digital_Object

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| Name: Digital_Object | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The Digital Object class defines a sequence of digital bits. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum, Checksum_Manifest, Document, Document_File, Encoded_Binary, Encoded_Byt_ Stream, Encoded_Header, Encoded_Image, Encoded_Native, File, Header, Inventory, Manifest_SIP_Deep_Archive, Parsable_Byt_ Stream, SPICE_Kernel, Service_Description, Software, Software_Binary, Software_Script, Software_Source, Stream_Text, Table_Base, Table_Binary, Table_Character, Table_Delimited, Transfer_Manifest, XML_Schema | | | |

Discipline_Area

| | | |
|-----------------------------------------------------------------------------------------------|--|----------------------------|
| Name: Discipline_Area | | Version Id: 1.0.0.0 |
| <i>Description:</i> The Discipline area allows the insertion of discipline specific metadata. | | |

Support classes in
the pds namespace.

| Name: Discipline_Area | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Discipline_Area | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Context_Area, Observation_Area, Product_Context | | | |

Discipline_Facets

| Name: Discipline_Facets | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Discipline_Facets class contains the discipline-related search facets. It is required and may not be repeated. Note that Science_Facets was modeled with Discipline_Facets as a component and Discipline_Facets was modeled with Group_Facet1 and Group_Facet2 as components. This dependency hierarchy was flattened and only Science_Facets exists in the schema. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Discipline_Facets | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | discipline_name | 1..1 | Atmospheres, Fields, Flux Measurements, Geosciences, Imaging, Particles, Radio Science, Ring-Moon Systems, Small Bodies, Spectroscopy |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Group_Facet1 | 0..Unbounded | Group_Facet1 |
| | has_Group_Facet2 | 0..Unbounded | Group_Facet2 |
| <i>Referenced from:</i> Science_Facets | | | |

Display_2D_Image *Deprecated*

| Name: Display_2D_Image *Deprecated* | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Display_2D_Image class provides attributes to enable the display of a 2 dimensional image. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Display_2D_Image *Deprecated* | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | line_display_direction | 1..1 | Down, Up |
| | sample_display_direction | 1..1 | Right |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Array_2D_Image, Array_2D_Map, Array_2D_Spectrum | | | |

Dissemination_Information_Package

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| Name: Dissemination_Information_Package | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The Dissemination Information Package (DIP) class defines an Information Package, derived from one or more AIPs, that is received by a consumer. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package :: Dissemination_Information_Package | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_DIP | | | |

Document

| | | | |
|-----------------------------------------------------------------------------------|----------------------|----------------------------|-----------------------|
| Name: Document | | Version Id: 2.0.0.0 | |
| <i>Description:</i> The Document class describes a document. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Document | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | revision_id | 0..1 | None |
| | document_name | 0..1 | None |
| | doi | 0..1 | None |
| | author_list | 0..1 | None |
| | editor_list | 0..1 | None |
| | acknowledgement_text | 0..1 | None |
| | copyright | 0..1 | None |
| | publication_date | 1..1 | None |
| | document_editions | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_document_edition | 1..Unbounded | Document_Edition |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> Product_Document | | | |

Document_Edition

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| Name: Document_Edition | | Version Id: 1.0.0.0 | |
| <i>Description:</i> A Document Edition is one complete version of the document in a set of files that is distinguished by language, a unique assemblage of file formats, or some other criteria. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Document_Edition | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | edition_name | 1..1 | None |

| Name: Document_Edition | | | Version Id: 1.0.0.0 |
|----------------------------------|---------------------------|--------------------|----------------------------|
| | starting_point_identifier | 0..1 | None |
| | language | 1..1 | English |
| | files | 1..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_document_file | 1..Unbounded | Document_File |
| <i>Referenced from:</i> Document | | | |

Document_File

| Name: Document_File | | | Version Id: 1.4.0.0 |
|---------------------------------------------------------------------------------------------|----------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Document File class describes a file which is a part of a document. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: File :: Document_File | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | file_name | 1..1 | None |
| | local_identifier | 0..1 | None |
| | creation_date_time | 0..1 | None |
| | file_size | 0..1 | None |
| | records | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | comment | 0..1 | None |
| | directory_path_name | 0..1 | None |
| | document_standard_id | 1..1 | 7-Bit ASCII Text, Encapsulated Postscript, GIF, HTML, HTML 2.0, HTML 3.2, HTML 4.0, HTML 4.01, JPEG, LaTEX, MPEG-4, Microsoft Excel, Microsoft Word, PDF, PDF/A, PNG, Postscript, Rich Text, TIFF, UTF-8 Text |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> Document_Edition | | | |

Document_Object

| Name: Document_Object | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Document Object defines a Supplemental Object that provides readable evidence for humans. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |

| | | | |
|-------------------------------------------------------------------------------------------------|-------------|--------------------|----------------------------|
| Name: Document_Object | | | Version Id: 1.0.0.0 |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object :: Document_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Element_Array

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: Element_Array | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The Element Array class is used as a component of the array class and defines an element of the array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Element_Array | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | data_type | 1..1 | ComplexLSB16, ComplexLSB8, ComplexMSB16, ComplexMSB8, IEEE754LSBDouble, IEEE754LSBSingle, IEEE754MSBDouble, IEEE754MSBSingle, SignedBitString, SignedByte, SignedLSB2, SignedLSB4, SignedLSB8, SignedMSB2, SignedMSB4, SignedMSB8, UnsignedBitString, UnsignedByte, UnsignedLSB2, UnsignedLSB4, UnsignedLSB8, UnsignedMSB2, UnsignedMSB4, UnsignedMSB8 |
| | unit | 0..1 | None |
| | scaling_factor | 0..1 | None |
| | value_offset | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum | | | |

Encoded_Binary

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| Name: Encoded_Binary | | | Version Id: 1.1.0.0 |
| <i>Description:</i> The Encoded Binary class describes a binary encoded byte stream. This class is used to describe files in the repository that are being registered using Product_File_Repository. | | | |

| Name: Encoded_Binary | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Encoded_Byte_Stream :: Encoded_Binary | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | encoding_standard_id | 1..1 | CCSDS Space Communications Protocols |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Binary, File_Area_Observational_Supplemental | | | |

Encoded_Byte_Stream

| Name: Encoded_Byte_Stream | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Encoded Byte Stream class defines byte streams that must be decoded by software before use. These byte streams must only use standard encodings. The Encoded Byte Stream class is the parent class for all encoded byte streams. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Encoded_Byte_Stream | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | encoding_standard_id | 1..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Observational_Supplemental | | | |

Encoded_Header

| Name: Encoded_Header | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Encoded Header class describes a header that has been encoded using an encoding scheme that is compliant to an external standard. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |

| Name: Encoded_Header | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|----------------------------|
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Encoded_Byte_Stream :: Encoded_Header | | | |
| Attribute(s) | Name | Cardinality | Value |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | encoding_standard_id | 1..1 | TIFF |
| | description | 0..1 | None |
| Association(s) | Name | Cardinality | Class |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Encoded_Image

| Name: Encoded_Image | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|---------------------------------------|
| <i>Description:</i> The Encoded Image class is used for ancillary images in standard formats, such as JPEG. | | | |
| Namespace Id: | pds | Steward: | pds |
| | | | Role: concrete |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Encoded_Byte_Stream :: Encoded_Image | | | |
| Attribute(s) | Name | Cardinality | Value |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | encoding_standard_id | 1..1 | GIF, J2C, JPEG, PDF, PDF/A, PNG, TIFF |
| | description | 0..1 | None |
| Association(s) | Name | Cardinality | Class |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Encoded_Image, File_Area_Observational_Supplemental | | | |

Encoded_Native

| Name: Encoded_Native | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|----------------------------|
| <i>Description:</i> The Encoded Native class describes a binary encoded byte stream. This class is used to describe data objects for Product_Native. | | | |
| Namespace Id: | pds | Steward: | pds |
| | | | Role: concrete |
| <i>Status:</i> Active | | | |

| Name: Encoded_Native | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------|----------------------|-------------|----------------------------|
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Encoded_Byte_Stream :: Encoded_Native | | | |
| Attribute(s) | Name | Cardinality | Value |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | encoding_standard_id | 1..1 | SEED 2.4 |
| | description | 0..1 | None |
| Association(s) | Name | Cardinality | Class |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Native | | | |

External_Reference

| Name: External_Reference | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The External_Reference class is used to reference a source outside the PDS registry system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: External_Reference | | | |
| Attribute(s) | Name | Cardinality | Value |
| | doi | 0..1 | None |
| | reference_text | 1..1 | None |
| | description | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Observing_System_Component, Reference_List | | | |

External_Reference_Extended

| Name: External_Reference_Extended | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The External_Reference_Extended class is used to reference a source outside the PDS registry system. This extension is used in the local data dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: External_Reference :: External_Reference_Extended | | | |
| Attribute(s) | Name | Cardinality | Value |
| | doi | 0..1 | None |
| | reference_text | 1..1 | None |
| | description | 0..1 | None |
| | name | 0..1 | None |
| | url | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Terminological_Entry | | | |

Facility

| Name: Facility | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Facility class provides a name and address for a terrestrial observatory or laboratory. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Facility | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | type | 1..1 | Laboratory, Observatory |
| | address | 0..1 | None |
| | country | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |
| <i>Referenced from:</i> Product_Context | | | |

Field

| Name: Field | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Field class defines a field of a record and is the parent class of all specific field classes. The Field class defines a field of a record or a field of a group and is the parent class of all specific field classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Field | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | field_number | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Field_Binary

| Name: Field_Binary | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------------------|
| <i>Description:</i> The Field_Binary class defines a field of a binary record or a field of a binary group. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Field :: Field_Binary | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | field_number | 0..1 | None |
| | field_location | 1..1 | None |
| | data_type | 1..1 | ASCII_AnyURI, ASCII_BibCode, ASCII_Boolean, |

| Name: Field_Binary | | | Version Id: 1.0.0.0 |
|---------------------------|----------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | ASCII_DOI, ASCII_Date_DOY, ASCII_Date_Time_DOY, ASCII_Date_Time_DOY_UTC, ASCII_Date_Time_YMD, ASCII_Date_Time_YMD_UTC, ASCII_Date_YMD, ASCII_Directory_Path_Name, ASCII_File_Name, ASCII_File_Specification_Name, ASCII_Integer, ASCII_LID, ASCII_LIDVID, ASCII_LIDVID_LID, ASCII_MD5_Checksum, ASCII_NonNegative_Integer, ASCII_Numeric_Base16, ASCII_Numeric_Base2, ASCII_Numeric_Base8, ASCII_Real, ASCII_String, ASCII_Time, ASCII_VID, ComplexLSB16, ComplexLSB8, ComplexMSB16, ComplexMSB8, IEEE754LSBDouble, IEEE754LSBSingle, IEEE754MSBDouble, IEEE754MSBSingle, SignedBitString, SignedByte, SignedLSB2, SignedLSB4, SignedLSB8, SignedMSB2, SignedMSB4, SignedMSB8, UTF8_String, UnsignedBitString, UnsignedByte, UnsignedLSB2, UnsignedLSB4, UnsignedLSB8, UnsignedMSB2, UnsignedMSB4, UnsignedMSB8 |
| | field_length | 1..1 | None |
| | field_format | 0..1 | None |
| | unit | 0..1 | None |
| | scaling_factor | 0..1 | None |
| | value_offset | 0..1 | None |
| | description | 0..1 | None |

| Name: Field_Binary | | | Version Id: 1.0.0.0 |
|---------------------------|------------------------------|--------------------|----------------------------|
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Field_Statistics |
| | has_Packed_Data_Fields | 0..1 | Packed_Data_Fields |

Referenced from: Group_Field_Binary, Record_Binary

Field_Bit

| Name: Field_Bit | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|------------------------------------|
| <i>Description:</i> The Field_Bit class provides parameters for extracting one field out of a string of bytes which contains packed data (that is, data values either smaller than a single byte, or crossing byte boundaries, or both). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Field :: Field_Bit | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | field_number | 0..1 | None |
| | start_bit_location | 0..1 | None |
| | start_bit *Deprecated* | 0..1 | None |
| | stop_bit_location | 0..1 | None |
| | stop_bit *Deprecated* | 0..1 | None |
| | data_type | 1..1 | SignedBitString, UnsignedBitString |
| | field_format | 0..1 | None |
| | unit | 0..1 | None |
| | scaling_factor | 0..1 | None |
| | value_offset | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | associated_Special_Constants | 0..1 | Special_Constants |

Referenced from: Packed_Data_Fields

Field_Character

| Name: Field_Character | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Field_Character class defines a field of a character record or a field of a character group. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Field :: Field_Character | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |

| Name: Field_Character | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------|------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | field_number | 0..1 | None |
| | field_location | 1..1 | None |
| | data_type | 1..1 | ASCII_AnyURI, ASCII_BibCode, ASCII_Boolean, ASCII_DOI, ASCII_Date_DOF, ASCII_Date_Time_DOF, ASCII_Date_Time_DOF_UTC, ASCII_Date_Time_YMD, ASCII_Date_Time_YMD_UTC, ASCII_Date_YMD, ASCII_Directory_Path_Name, ASCII_File_Name, ASCII_File_Specification_Name, ASCII_Integer, ASCII_LID, ASCII_LIDVID, ASCII_LIDVID_LID, ASCII_MD5_Checksum, ASCII_NonNegative_Integer, ASCII_Numeric_Base16, ASCII_Numeric_Base2, ASCII_Numeric_Base8, ASCII_Real, ASCII_String, ASCII_Time, ASCII_VID, UTF8_String |
| | field_length | 1..1 | None |
| | field_format | 0..1 | None |
| | validation_format | 0..1 | None |
| | unit | 0..1 | None |
| | scaling_factor | 0..1 | None |
| | value_offset | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Field_Statistics |
| <i>Referenced from:</i> Group_Field_Character, Record_Character | | | |

Field_Delimited

| Name: Field_Delimited | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|----------------------------|
| <i>Description:</i> The Field_Delimited class defines a field of a delimited record or a field of a delimited group. | |

| Name: Field_Delimited | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Field :: Field_Delimited | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | field_number | 0..1 | None |
| | data_type | 1..1 | ASCII_AnyURI, ASCII_BibCode, ASCII_Boolean, ASCII_DOI, ASCII_Date_DOY, ASCII_Date_Time_DOY, ASCII_Date_Time_DOY_UTC, ASCII_Date_Time_YMD, ASCII_Date_Time_YMD_UTC, ASCII_Date_YMD, ASCII_Directory_Path_Name, ASCII_File_Name, ASCII_File_Specification_Name, ASCII_Integer, ASCII_LID, ASCII_LIDVID, ASCII_LIDVID_LID, ASCII_MD5_Checksum, ASCII_NonNegative_Integer, ASCII_Numeric_Base16, ASCII_Numeric_Base2, ASCII_Numeric_Base8, ASCII_Real, ASCII_String, ASCII_Time, ASCII_VID, UTF8_String |
| | maximum_field_length | 0..1 | None |
| | field_format | 0..1 | None |
| | unit | 0..1 | None |
| | scaling_factor | 0..1 | None |
| | value_offset | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | associated_Special_Constants | 0..1 | Special_Constants |
| | associated_Statistics | 0..1 | Field_Statistics |
| <i>Referenced from:</i> Group_Field_Delimited, Record_Delimited | | | |

Field_Statistics

| Name: Field_Statistics | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|---------------------|
| <i>Description:</i> The Field Statistics class provides a set of metrics for a column formed by a field in a repeating record. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Field_Statistics | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | local_identifier | 0..1 | None |
| | maximum | 0..1 | None |
| | minimum | 0..1 | None |
| | mean | 0..1 | None |
| | standard_deviation | 0..1 | None |
| | median | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Field_Binary, Field_Character, Field_Delimited | | | |

File

| Name: File | | | Version Id: 1.1.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|---------------------|
| <i>Description:</i> The File class consists of attributes that describe a file in a data store. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: File | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | file_name | 1..1 | None |
| | local_identifier | 0..1 | None |
| | creation_date_time | 0..1 | None |
| | file_size | 0..1 | None |
| | records | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | comment | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Binary, File_Area_Browse, File_Area_Checksum_Manifest, File_Area_Encoded_Image, File_Area_Inventory, File_Area_Metadata, File_Area_Native, File_Area_Observational, File_Area_Observational_Supplemental, File_Area_SIP_Deep_Archive, File_Area_SPICE_Kernel, File_Area_Service_Description, File_Area_Text, File_Area_Transfer_Manifest, File_Area_Update *Deprecated*, File_Area_XML_Schema, Product_Zipped | | | |

File_Area

| | | | |
|----------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: File_Area | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The File_Area class defines a File and its component data objects. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area | | | |
| No Attributes | | | |
| No Associations | | | |
| <i>Referenced from:</i> None | | | |

File_Area_Ancillary

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: File_Area_Ancillary | Version Id: 1.1.0.0 | | |
| <i>Description:</i> The File Area Ancillary class describes a file and one or more tagged_data_objects contained within the file. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Ancillary | | | |
| No Attributes | | | |
| Association(s) | Name | Cardinality | Class |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..Unbounded | Array, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum, Checksum_Manifest, Encoded_Header, Encoded_Image, Header, Stream_Text, Table_Binary, Table_Character, Table_Delimited |
| <i>Referenced from:</i> Product_Ancillary | | | |

File_Area_Binary

| | | | |
|-------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: File_Area_Binary | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The File Area Binary class describes a file that contains an encoded byte stream. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Binary | | | |
| No Attributes | | | |
| Association(s) | Name | Cardinality | Class |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 0..Unbounded | Encoded_Binary |
| <i>Referenced from:</i> Product_File_Repository, Product_Proxy_PDS3 | | | |

File_Area_Browse

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: File_Area_Browse | | Version Id: 1.2.0.0 | |
| <i>Description:</i> The File Area Browse class describes a file and one or more tagged_data_objects contained within the file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Browse | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..Unbounded | Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum, Encoded_Header, Encoded_Image, Header, Stream_Text, Table_Binary, Table_Character, Table_Delimited |
| <i>Referenced from:</i> Product_Browse | | | |

File_Area_Checksum_Manifest

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|-----------------------|
| Name: File_Area_Checksum_Manifest | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The File Area Checksum Manifest class describes a file that contains a two column table for file references and checksums. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Checksum_Manifest | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | Checksum_Manifest |
| <i>Referenced from:</i> Information_Package_Component | | | |

File_Area_Encoded_Image

| | | | |
|---------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| Name: File_Area_Encoded_Image | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The File Area Encoded Image class describes a file that contains an Encoded Image object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Encoded_Image | | | |
| <i>No Attributes</i> | | | |

| Name: File_Area_Encoded_Image | | | Version Id: 1.0.0.0 |
|-------------------------------------------|------------------------|--------------------|----------------------------|
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | Encoded_Image |
| <i>Referenced from:</i> Product_Thumbnail | | | |

File_Area_Inventory

| Name: File_Area_Inventory | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------|
| <i>Description:</i> The File Area Inventory class describes a file and an inventory consisting of references to members. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Inventory | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | Inventory |
| <i>Referenced from:</i> Product_Collection | | | |

File_Area_Metadata

| Name: File_Area_Metadata | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------------|
| <i>Description:</i> The File Area Metadata class describes a table which provides new, and/or improved, metadata. All field names provided must be attributes defined in PDS4, either in the common dictionary, or in a PDS4 discipline or mission dictionary. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Metadata | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object2 | 0..1 | Header |
| | has_tagged_data_object | 1..1 | Table_Character, Table_Delimited |
| <i>Referenced from:</i> Product_Metadata_Supplemental | | | |

File_Area_Native

| Name: File_Area_Native | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The File Area Native describes tagged_data_objects collected from an instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Native | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |

| | | | |
|----------------------------------------|------------------------|--------------|----------------------------|
| Name: File_Area_Native | | | Version Id: 1.0.0.0 |
| | has_tagged_data_object | 1..Unbounded | Encoded_Native |
| <i>Referenced from:</i> Product_Native | | | |

File_Area_Observational

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: File_Area_Observational | Version Id: 1.3.0.0 | | |
| <i>Description:</i> The File Area Observational class describes, for an observational product, a file and one or more tagged_data_objects contained within the file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Observational | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_composite_structure | 0..1 | Composite_Structure |
| | has_tagged_data_object | 1..Unbounded | Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum, Encoded_Header, Header, Stream_Text, Table_Binary, Table_Character, Table_Delimited |
| <i>Referenced from:</i> Product_Observational | | | |

File_Area_Observational_Supplemental

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|--------------------------------------------------------------------------------------------------------|
| Name: File_Area_Observational_Supplemental | Version Id: 1.3.0.0 | | |
| <i>Description:</i> The File Area Observational Supplemental class describes, for an observational product, additional files and tagged_data_objects contained within the file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Observational_Supplemental | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_composite_structure | 0..1 | Composite_Structure |
| | has_tagged_data_object | 1..Unbounded | Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Ar- |

| | | |
|---------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: File_Area_Observational_Supplemental | | Version Id: 1.3.0.0 |
| | | ray_3D_Image, Ar-ray_3D_Movie, Ar-ray_3D_Spectrum, Encoded_Binary, Encod-ed_Byt_e_Stream, Encod-ed_Hedger, Encod-ed_Imag_e, Hedger, Parsable_Byt_e_Stream, Stream_Text, Table_Binary, Table_Character, Table_Delimited |
| <i>Referenced from:</i> Product_Observational | | |

File_Area_SIP_Deep_Archive

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|---------------------------|
| Name: File_Area_SIP_Deep_Archive | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The File Area SIP Deep Archive class describes the File Area for the Submission Information Package (SIP) for the NASA planetary science deep archive. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_SIP_Deep_Archive | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | Manifest_SIP_Deep_Archive |
| <i>Referenced from:</i> Information_Package_Component_Deep_Archive | | | |

File_Area_SPICE_Kernel

| | | | |
|------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: File_Area_SPICE_Kernel | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The File Area SPICE Kernel class describes a file that contains a SPICE Kernel object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_SPICE_Kernel | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | SPICE_Kernel |
| <i>Referenced from:</i> Product_SPICE_Kernel | | | |

File_Area_Service_Description

| | | | |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: File_Area_Service_Description | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The File Area Service Description class describes a file that contains a service description. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Service_Description | | | |

| Name: File_Area_Service_Description | | | Version Id: 1.0.0.0 |
|--------------------------------------------|------------------------|--------------------|----------------------------|
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..Unbounded | Service_Description |
| <i>Referenced from:</i> Product_Service | | | |

File_Area_Text

| Name: File_Area_Text | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------|
| <i>Description:</i> The File Area Text class describes a file that contains a text stream object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Text | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | Stream_Text |
| <i>Referenced from:</i> Product_Bundle, Product_File_Text | | | |

File_Area_Transfer_Manifest

| Name: File_Area_Transfer_Manifest | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------|
| <i>Description:</i> The File Area Transfer Manifest class describes a file that contains a two column table that maps the logical identifiers and version ids of products to their file specification names. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Transfer_Manifest | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | Transfer_Manifest |
| <i>Referenced from:</i> Information_Package_Component | | | |

File_Area_Update *Deprecated*

| Name: File_Area_Update *Deprecated* | | | Version Id: 1.1.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The File Area Update class is a File Area that describes a file that contains one or more digital objects used to provide additional metadata for registered products. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_Update *Deprecated* | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object2 | 0..1 | Header |

| | | | |
|-----------------------------------------------------|------------------------|------|----------------------------------|
| Name: File_Area_Update *Deprecated* | | | Version Id: 1.1.0.0 |
| | has_tagged_data_object | 1..1 | Table_Character, Table_Delimited |
| <i>Referenced from:</i> Product_Update *Deprecated* | | | |

File_Area_XML_Schema

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------|
| Name: File_Area_XML_Schema | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The File Area XML Schema class describes a file that contains a resource used for the PDS4 implementation into XML. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: File_Area :: File_Area_XML_Schema | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_File | 1..1 | File |
| | has_tagged_data_object | 1..1 | XML_Schema |
| <i>Referenced from:</i> Product_XML_Schema | | | |

Finding_Aid_Object

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| Name: Finding_Aid_Object | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The Finding Aid Object defines a Supplemental Object that supports a user when attempting to locate data. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object :: Finding_Aid_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Group

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| Name: Group | | | Version Id: 1.1.0.0 |
| <i>Description:</i> The Group class defines a group of (repeating) fields and, possibly, (sub) groups; it is the parent class of all specific group classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Group | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | group_number | 0..1 | None |
| | repetitions | 1..1 | None |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | description | 0..1 | None |

Support classes in
the pds namespace.

| | |
|--------------------|----------------------------|
| Name: Group | Version Id: 1.1.0.0 |
| No Associations | |
| Referenced from: | None |

Group_Facet1

| Name: Group_Facet1 | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Group_Facet1 class contains a single facet restricted according to the value of discipline_name. It also contains zero or more subfacets restricted according to the value of the facet. Note that Science_Facets was modeled with Discipline_Facets as a component and Discipline_Facets was modeled with Group_Facet1 and Group_Facet2 as components. This dependency hierarchy was flattened and only Science_Facets exists in the schema. | | | |
| Namespace Id: pds | Steward: pds | | |
| <i>Class Hierarchy:</i> Product_Components :: Group_Facet1 | | | |
| Attribute(s) | Name | Cardinality | Value |
| | facet1 | 0..1 | 2D, Color, Color Movie, Dust Study, Dynamical Properties, Electric, Electrons, Gas Study, Grayscale, Historical Reference, Ions, Lightcurve, Linear, Magnetic, Meteoritics, Meteorology, Movie, Neutrals, Photometry, Physical Properties, Polarimetry, Production Rates, Ring Compositional Map, Ring Occultation Profile, Ring Thermal Map, Satellite Astrometry, Shape Model, Spectral Cube, Spectral Image, Structure, Tabulated, Taxonomy |
| | subfacet1 | 0..Unbounded | None |
| No Associations | | | |
| Referenced from: Discipline_Facets | | | |

Group_Facet2

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Group_Facet2 | Version Id: 1.0.0.0 |
| <i>Description:</i> The Group_Facet2 class contains a single facet restricted according to the value of discipline_name. It also contains zero or more subfacets restricted according to the value of the facet. Note that Science_Facets was modeled with Discipline_Facets as a component and Discipline_Facets was modeled with Group_Facet1 and Group_Facet2 as components. This dependency hierarchy was flattened and only Science_Facets exists in the schema. | |
| Namespace Id: pds | Steward: pds |
| <i>Class Hierarchy:</i> Product_Components :: Group_Facet2 | |

| Name: Group_Facet2 | | | Version Id: 1.0.0.0 |
|-------------------------------------------|-------------|--------------------|-------------------------------------------------------------------|
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | facet2 | 0..1 | Background, Cosmic Ray, Energetic, Plasma, Solar Energetic, Waves |
| | subfacet2 | 0..Unbounded | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Discipline_Facets | | | |

Group_Field_Binary

| Name: Group_Field_Binary | | | Version Id: 1.1.0.0 |
|----------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------------|
| <i>Description:</i> The Group_Field_Binary class allows a group of table fields. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Group :: Group_Field_Binary | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | group_number | 0..1 | None |
| | repetitions | 1..1 | None |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | description | 0..1 | None |
| | group_location | 1..1 | None |
| | group_length | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Group_Field_Binary | 1..Unbounded | Field_Binary, Group_Field_Binary |
| <i>Referenced from:</i> Group_Field_Binary, Record_Binary | | | |

Group_Field_Character

| Name: Group_Field_Character | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Group_Field_Character class allows a group of table fields. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Group :: Group_Field_Character | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | group_number | 0..1 | None |
| | repetitions | 1..1 | None |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | description | 0..1 | None |
| | group_location | 1..1 | None |
| | group_length | 1..1 | None |

| Name: Group_Field_Character | | | Version Id: 1.1.0.0 |
|-----------------------------------------------------------------|---------------------------|--------------------|-------------------------------------------|
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Group_Field_Character | 1..Unbounded | Field_Character, Group_Field_Character |
| <i>Referenced from:</i> Group_Field_Character, Record_Character | | | |

Group_Field_Delimited

| Name: Group_Field_Delimited | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------|-----------------------------|-----------------------|-------------------------------------------|
| <i>Description:</i> The Field_Group_Delimited class allows a group of delimited fields. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Group :: Group_Field_Delimited | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | group_number | 0..1 | None |
| | repetitions | 1..1 | None |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Delimited_Field_Grouped | 1..Unbounded | Field_Delimited, Group_Field_Delimited |
| <i>Referenced from:</i> Group_Field_Delimited, Record_Delimited | | | |

Header

| Name: Header | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Header class describes a data object header. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Header | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 1..1 | None |
| | parsing_standard_id | 1..1 | 7-Bit ASCII Text, CDF 3.4 ISTP/IACG, FITS 3.0, ISIS2, ISIS2 History Label, ISIS3, PDS DSV 1, PDS ODL 2, PDS3, Pre-PDS3, UTF-8 Text, VICAR1, VICAR2 |
| | description | 0..1 | None |

| Name: Header | | | Version Id: 1.1.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|----------------------------|
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Metadata, File_Area_Observational, File_Area_Observational_Supplemental, File_Area_Update *Deprecated* | | | |

Identification_Area

| Name: Identification_Area | | | Version Id: 1.4.0.0 |
|------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The identification area consists of attributes that identify and name an object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Identification_Area | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | logical_identifier | 1..1 | None |
| | version_id | 1..1 | None |
| | title | 1..1 | None |
| | information_model_version | 1..1 | 1.0.0.0, 1.1.0.0, 1.10.0.0, 1.10.1.0, 1.11.0.0, 1.12.0.0, 1.2.0.0, 1.2.0.1, 1.3.0.0, 1.3.0.1, 1.4.0.0, 1.5.0.0, 1.6.0.0, 1.7.0.0, 1.8.0.0, 1.9.0.0, 1.9.1.0 |
| | product_class | 1..1 | Product_AIP, Product_Ancillary, Product_Attribute_Definition, Product_Browse, Product_Bundle, Product_Class_Definition, Product_Collection, Product_Context, Product_DIP, Product_DIP_Deep_Archive, Product_Data_Set_PDS3, Product_Document, Product_File_Repository, Product_File_Text, Product_Instrument_Host_PDS3, Product_Instrument_PDS3, Product_Metadata_Supplemental, Product_Mission_PDS3, Product_Native, Product_Observational, Product_Proxy_PDS3, Product_SIP, Product_SIP_Deep_Archive, Product_SPICE_Kernel, Product_Service, Product_Software, Product_ |

| Name: Identification_Area | | | Version Id: 1.4.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | Subscription_PDS3, Product_Target_PDS3, Product_Thumbnail, Product_Update, Product_Volume_PDS3, Product_Volume_Set_PDS3, Product_XML_Schema, Product_Zipped |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | alias_list | 0..1 | Alias_List |
| | citation_information | 0..1 | Citation_Information |
| | modification_history | 0..1 | Modification_History |
| <i>Referenced from:</i> Product, Product_AIP, Product_Ancillary, Product_Attribute_Definition, Product_Browse, Product_Bundle, Product_Class_Definition, Product_Collection, Product_Context, Product_DIP, Product_DIP_Deep_Archive, Product_Data_Set_PDS3, Product_Document, Product_File_Repository, Product_File_Text, Product_Instrument_Host_PDS3, Product_Instrument_PDS3, Product_Metadata_Supplemental, Product_Mission_PDS3, Product_Native, Product_Observational, Product_Proxy_PDS3, Product_SIP, Product_SIP_Deep_Archive, Product_SPICE_Kernel, Product_Service, Product_Software, Product_Subscription_PDS3, Product_Target_PDS3, Product_Thumbnail, Product_Update *Deprecated*, Product_Volume_PDS3, Product_Volume_Set_PDS3, Product_XML_Schema, Product_Zipped | | | |

Information_Package

| Name: Information_Package | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Information Package class defines the Information Package as described in the OAIS Reference Model and is the parent class of all specific IP classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Information_Package_Component

| Name: Information_Package_Component | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Information_Package_Component class associates a Bundle, Collections or Basic Products with Checksum and Storage Manifests. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package_Component | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | checksum_manifest_checksum | 0..1 | None |
| | checksum_type | 0..1 | None |

| Name: Information_Package_Component | | | Version Id: 1.0.0.0 |
|--------------------------------------------|----------------------------|--------------------|-----------------------------|
| | transfer_manifest_checksum | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 1..Unbounded | Internal_Reference |
| | has_Checksum_Manifest | 0..1 | File_Area_Checksum_Manifest |
| | has_Transfer_Manifest | 0..1 | File_Area_Transfer_Manifest |

Referenced from: Product_AIP, Product_DIP, Product_DIP_Deep_Archive, Product_SIP

Information_Package_Component_Deep_Archive

| Name: Information_Package_Component_Deep_Archive | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Information Package Component Deep Archive class is an Information Package Component for the NASA planetary science deep archive. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package_Component_Deep_Archive | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | manifest_checksum | 1..1 | None |
| | checksum_type | 1..1 | MD5Deep 4.n |
| | manifest_url | 1..1 | None |
| | aip_livid | 1..1 | None |
| | aip_label_checksum | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_manifest | 1..1 | File_Area_SIP_Deep_Archive |
| | internal_reference | 1..1 | Internal_Reference |

Referenced from: Product_SIP_Deep_Archive

Instrument

| Name: Instrument | | | Version Id: 1.3.0.0 |
|----------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Instrument class provides a description of a physical object that collects data. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Instrument | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | type *Deprecated* | 0..Unbounded | Accelerometer, Alpha Particle Detector, Alpha Particle X-Ray Spectrometer, Altimeter, Anemometer, At- |

| Name: Instrument | | | Version Id: 1.3.0.0 |
|-------------------------|----------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | mospheric Sciences, Atomic Force Microscope, Barometer, Biology Experiments, Bolometer, Camera, Cosmic Ray Detector, Drilling Tool, Dust, Dust Detector, Electrical Probe, Energetic Particle Detector, Gamma Ray Detector, Gas Analyzer, Gravimeter, Grinding Tool, Hygrometer, Imager, Imaging Spectrometer, Inertial Measurement Unit, Infrared Spectrometer, Interferometer, Laser Induced Breakdown Spectrometer, Magnetometer, Mass Spectrometer, Microscope, Microwave Spectrometer, Moessbauer Spectrometer, Naked Eye, Neutral Particle Detector, Neutron Detector, Particle Detector, Photometer, Plasma Analyzer, Plasma Detector, Plasma Wave Spectrometer, Polarimeter, Radar, Radio Science, Radio Spectrometer, Radio Telescope, Radio-Radar, Radiometer, Reflectometer, Regolith Properties, Robotic Arm, Seismometer, Small Bodies Sciences, Spectrograph, Spectrograph Imager, Spectrometer, Thermal Imager, Thermal Probe, Thermometer, Ultra-violet Spectrometer, Weather Station, Wet Chemistry Laboratory, X-ray Detector, X-ray Diffraction Spectrometer, X-ray Fluorescence Spectrometer |
| | subtype *Deprecated* | 0..Unbounded | None |
| | model_id | 0..1 | None |

| Name: Instrument | | | Version Id: 1.3.0.0 |
|-----------------------------------------|--------------------|--------------------|----------------------------|
| | naif_instrument_id | 0..1 | None |
| | serial_number | 0..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_type_list_area | 1..1 | Type_List_Area |
| | data_object | 1..1 | Physical_Object |
| <i>Referenced from:</i> Product_Context | | | |

Instrument_Host

| Name: Instrument_Host | | | Version Id: 1.3.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|
| <i>Description:</i> The Instrument Host class provides a description of the physical object upon which an instrument is mounted. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Instrument_Host | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | instrument_host_version_id *Deprecated* | 0..1 | None |
| | version_id *Deprecated* | 0..1 | None |
| | type | 1..1 | Aircraft, Balloon, Earth Based, Earth-based, Lander, Rover, Spacecraft, Suborbital Rocket |
| | naif_host_id | 0..1 | None |
| | serial_number | 0..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |
| <i>Referenced from:</i> Product_Context | | | |

Internal_Reference

| Name: Internal_Reference | | | Version Id: 1.1.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Internal_Reference class is used to cross-reference other products in PDS4-compliant registries of PDS and its recognized international partners. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Internal_Reference | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | lid_reference | 1..1 | None |
| | lidvid_reference | 1..1 | None |
| | reference_type | 1..1 | None |
| | comment | 0..1 | None |

Support classes in
the pds namespace.

| Name: Internal_Reference | Version Id: 1.1.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| No Associations | |
| <i>Referenced from:</i> DD_Attribute, DD_Class, Information_Package_Component, Information_Package_Component_Deep_Archive, Investigation_Area, Observing_System_Component, Product_Zipped, Reference_List, Target_Identification, Update_Entry | |

Inventory

| Name: Inventory | Version Id: 1.2.0.0 | | |
|----------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Inventory class defines the inventory for members of a collection. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Table_Delimited :: Inventory | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | PDS DSV 1 |
| | description | 0..1 | None |
| | records | 1..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |
| | field_delimiter | 1..1 | Comma, Horizontal Tab, Semicolon, Vertical Bar, comma, horizontal tab, semicolon, vertical bar |
| | reference_type | 1..1 | inventory_has_member_product |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| | uniformly_sampled | 0..1 | Uniformly_Sampled |
| | has_delimited_record | 1..1 | Record_Delimited |
| <i>Referenced from:</i> File_Area_Inventory | | | |

Investigation

| Name: Investigation | Version Id: 1.0.0.0 | | |
|----------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| <i>Description:</i> A set of experiments and/or observations with a clearly defined purpose. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Investigation | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |

| Name: Investigation | | | Version Id: 1.0.0.0 |
|-----------------------------------------|-------------|--------------------|--------------------------------------------------------------------------------------------|
| | type | 1..1 | Field Campaign, Individual Investigation, Mission, Observing Campaign, Other Investigation |
| | start_date | 1..1 | None |
| | stop_date | 1..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Product_Context | | | |

Investigation_Area

| Name: Investigation_Area | | | Version Id: 1.1.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------------------------------------------------------|
| <i>Description:</i> The Investigation_Area class provides information about an investigation (mission, observing campaign or other coordinated, large-scale data collection effort). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Investigation_Area | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | type | 1..1 | Individual Investigation, Mission, Observing Campaign, Other Investigation |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 1..Unbounded | Internal_Reference |
| <i>Referenced from:</i> Context_Area, Observation_Area | | | |

Local_ID_Reference

| Name: Local_ID_Reference | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|--------------------------------------|
| <i>Description:</i> The Local_ID_Reference class defines a one directional relationship by referencing another description object in the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Local_ID_Reference | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | comment | 0..1 | None |
| | id_reference_to | 1..Unbounded | None |
| | id_reference_type | 1..1 | has_component, has_primary_component |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Composite_Structure | | | |

Local_ID_Relation

| Name: Local_ID_Relation | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|--------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Local_ID_Relation class defines a one directional relationship between two description objects in the label. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Local_ID_Relation | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | comment | 0..1 | None |
| | id_reference_from | 1..Unbounded | None |
| | id_reference_to | 1..Unbounded | None |
| | id_reference_type | 1..1 | has_axis_values, has_backplane, has_column_headers, has_display_settings, has_spectral_characteristics |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Composite_Structure | | | |

Local_Internal_Reference

| Name: Local_Internal_Reference | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|---------------------|
| <i>Description:</i> The Local_Internal_Reference class is used to cross-reference other Description Objects in a PDS4 label. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product_Components :: Local_Internal_Reference | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | comment | 0..1 | None |
| | local_identifier_reference | 1..1 | None |
| | local_reference_type | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum | | | |

Manifest_SIP_Deep_Archive

| Name: Manifest_SIP_Deep_Archive | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|---------------------|
| <i>Description:</i> The Manifest SIP Deep Archive class is a Table Delimited for the NASA planetary science deep archive's Submission Information Package (SIP). | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Table_Delimited :: Manifest_SIP_Deep_Archive | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |

| Name: Manifest_SIP_Deep_Archive | | | Version Id: 1.0.0.0 |
|----------------------------------------------------|----------------------|--------------------|------------------------------------------------------------------------------------------------|
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | PDS DSV 1 |
| | description | 0..1 | None |
| | records | 1..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |
| | field_delimiter | 1..1 | Comma, Horizontal Tab, Semicolon, Vertical Bar, comma, horizontal tab, semicolon, vertical bar |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| | uniformly_sampled | 0..1 | Uniformly_Sampled |
| | has_delimited_record | 1..1 | Record_Delimited |
| <i>Referenced from:</i> File_Area_SIP_Deep_Archive | | | |

Mission_Area

| Name: Mission_Area | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The mission area allows the insertion of mission specific metadata. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Mission_Area | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Context_Area, Observation_Area | | | |

Modification_Detail

| Name: Modification_Detail | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Modification_Detail class provides the details of one round of modification for the product. The first, required, instance of this class documents the date the product was first registered. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Modification_Detail | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | modification_date | 1..1 | None |
| | version_id | 1..1 | None |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Modification_History | | | |

Modification_History

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|---------------------|
| Name: Modification_History | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Modification_History class tracks the history of changes made to the product once it enters the registry system. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product_Components :: Modification_History | | | |
| No Attributes | | | |
| Association(s) | Name | Cardinality | Class |
| | modification_detail | 1..Unbounded | Modification_Detail |
| <i>Referenced from:</i> Identification_Area | | | |

NSSDC

| | | | |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|----------------|
| Name: NSSDC | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The NSSDC Information class provides identification information for data submitted to the NSSDC. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: NSSDC | | | |
| Attribute(s) | Name | Cardinality | Value |
| | medium_type | 1..1 | None |
| No Associations | nssdc_collection_id | 1..1 | None |
| | <i>Referenced from:</i> Data_Set_PDS3 | | |

Native_Object

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: Native_Object | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Native Object defines a Digital Object in the original format returned by the spacecraft or experimental system when that format cannot be described using one of the PDS4 formats specified for observational data (tables or arrays). | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Native_Object | | | |
| Attribute(s) | Name | Cardinality | Value |
| | bit_string | 1..1 | None |
| No Associations | | | |
| <i>Referenced from:</i> None | | | |

Node

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: Node | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Node class provides a description of an entity that provides local governance within the federated Planetary Data System. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Node | | | |

| Name: Node | | | Version Id: 1.0.0.0 |
|-----------------------|------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | Cartography and Imaging Sciences Discipline, Engineering, Geosciences, Imaging, Management, Navigation and Ancillary Information Facility, Planetary Atmospheres, Planetary Plasma Interactions, Planetary Rings, Planetary Science Archive, Radio Science, Ring-Moon Systems, Small Bodies |
| | institution_name | 1..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |

Referenced from: Product_Context

Object_Statistics

| Name: Object_Statistics | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Object Statistics class provides a set of values that provide metrics about the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Object_Statistics | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | local_identifier | 0..1 | None |
| | maximum | 0..1 | None |
| | minimum | 0..1 | None |
| | mean | 0..1 | None |
| | standard_deviation | 0..1 | None |
| | bit_mask *Deprecated* | 0..1 | None |
| | median | 0..1 | None |
| | md5_checksum *Deprecated* | 0..1 | None |
| | maximum_scaled_value | 0..1 | None |
| | minimum_scaled_value | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |

Referenced from: Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum

Observation_Area

| Name: Observation_Area | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------|----------------------------|
| <i>Description:</i> The observation area consists of attributes that provide information about the circumstances under which the data were collected. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Context_Area :: Observation_Area | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | comment | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_time_coordinates | 1..1 | Time_Coordinates |
| | has_primary_result_description | 0..1 | Primary_Result_Summary |
| | has_investigation_area | 1..Unbounded | Investigation_Area |
| | has_observing_system | 1..Unbounded | Observing_System |
| | has_target_identification | 1..Unbounded | Target_Identification |
| | has_mission_area | 0..1 | Mission_Area |
| | has_discipline_area | 0..1 | Discipline_Area |
| <i>Referenced from:</i> Product_Observational | | | |

Observational_Object

| Name: Observational_Object | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Observational Object class defines a Digital Object produced by an observing system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Observational_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Observing_System

| Name: Observing_System | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Observing System class describes the entire suite used to collect the data. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Observing_System | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |

| Name: Observing_System | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------|----------------------------|--------------|---------------------------------------|
| | observing_system_component | 1..Unbounded | Observing_System_Component |
| | data_object | 1..1 | Conceptual_Object, Physical_Object |
| <i>Referenced from:</i> Context_Area, Observation_Area | | | |

Observing_System_Component

| Name: Observing_System_Component | | | Version Id: 1.1.0.0 |
|-----------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Observing System Component class describes one or more subsystems used to collect data. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Observing_System_Component | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | type | 1..1 | Airborne, Aircraft, Artificial Illumination, Balloon, Computer, Facility, Instrument, Laboratory, Literature Search, Naked Eye, Observatory, Spacecraft, Suborbital Rocket, Telescope |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 0..1 | Internal_Reference |
| | external_reference | 0..Unbounded | External_Reference |
| <i>Referenced from:</i> Observing_System | | | |

Other

| Name: Other | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Other class provides a description of activities involved in the collection of data which are not otherwise modeled. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Other | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Product_Context | | | |

PDS_Affiliate

| <i>Name:</i> PDS_Affiliate | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The PDS Affiliate class provides a description of a person who has an association with the planetary science community and has access to PDS resources not normally allowed to the general public. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: PDS_Affiliate | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | registration_date | 1..1 | None |
| | electronic_mail_address | 0..Unbounded | None |
| | sort_name | 1..1 | None |
| | affiliation_type | 1..1 | Affiliate, Data Provider, Manager, Technical Staff |
| | alternate_telephone_number | 0..1 | None |
| | institution_name | 1..1 | None |
| | phone_book_flag | 1..1 | None |
| | postal_address_text | 1..1 | None |
| | team_name | 0..Unbounded | Cartography and Imaging Sciences Discipline, Engineering, Geosciences, Headquarters, Imaging, Management, National Space Science Data Center, Navigation and Ancillary Information Facility, Planetary Atmospheres, Planetary Plasma Interactions, Planetary Rings, Radio Science, Ring-Moon Systems, Small Bodies |
| | telephone_number | 0..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |
| <i>Referenced from:</i> Product_Context | | | |

PDS_Guest

| <i>Name:</i> PDS_Guest | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The PDS_Guest class is the default description of a person who has an association with the planetary science community and who has the most limited access to PDS resources. | | | |

| Name: PDS_Guest | | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------|-------------------------|-----------------------|-----------------------|----------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active | |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: PDS_Guest | | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> | |
| | name | 0..1 | None | |
| | registration_date | 1..1 | None | |
| | electronic_mail_address | 0..Unbounded | None | |
| | sort_name | 1..1 | None | |
| | description | 1..1 | None | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> | |
| | data_object | 1..1 | Physical_Object | |
| <i>Referenced from:</i> Product_Context | | | | |

Packed_Data_Fields

| Name: Packed_Data_Fields | | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Packed_Data_Fields class contains field definitions for extracting packed data from the associated byte string field. | | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active | |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Packed_Data_Fields | | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> | |
| | bit_fields | 1..1 | None | |
| | description | 0..1 | None | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> | |
| | has_Field_Bit | 1..Unbounded | Field_Bit | |
| <i>Referenced from:</i> Field_Binary | | | | |

Parsable_Byte_Stream

| Name: Parsable_Byte_Stream | | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Parsable Byte Stream class defines byte streams that have standard parsing rules. The Parsable Byte Stream class is the parent class for all parsable byte streams. | | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active | |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream | | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> | |
| | name | 0..1 | None | |
| | local_identifier | 0..1 | None | |
| | md5_checksum | 0..1 | None | |
| | offset | 1..1 | None | |
| | object_length | 0..1 | None | |
| | parsing_standard_id | 1..1 | None | |
| | description | 0..1 | None | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> | |

Support classes in
the pds namespace.

| | |
|--------------------------------------------------------------|----------------------------|
| Name: Parseable_Byte_Stream | Version Id: 1.0.0.0 |
| data_object | 1..1 |
| <i>Referenced from:</i> File_Area_Observational_Supplemental | |

Physical_Context_Object

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: Physical_Context_Object | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Physical Context Object class defines a Physical Object that is used to provide contextual information for an Observational Object. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Data_Object :: Physical_Object :: Physical_Context_Object | | | |
| No Attributes | | | |
| No Associations | | | |
| <i>Referenced from:</i> None | | | |

Physical_Object

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: Physical_Object | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Physical Object class defines a tangible object. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Data_Object :: Physical_Object | | | |
| No Attributes | | | |
| No Associations | | | |
| <i>Referenced from:</i> Data_Set_PDS3, Facility, Instrument, Instrument_Host, Instrument_Host_PDS3, Instrument_PDS3, Observing_System, PDS_Affiliate, PDS_Guest, Target, Target_PDS3, Telescope, Volume_PDS3, Volume_Set_PDS3 | | | |

Primary_Result_Summary

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: Primary_Result_Summary | Version Id: 2.3.0.0 | | |
| <i>Description:</i> The Primary_Result_Summary class provides a high-level description of the types of products included in the collection or bundle | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Product_Components :: Primary_Result_Summary | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | type *Deprecated* | 0..1 | Altimetry, Astrometry, Count, E/B-Field Vectors, Gravity Model, Image, Lightcurves, Map, Meteorology, Null Result, Occultation, Photometry, Physical Parameters, Polarimetry, Radiometry, Reference, Shape Model, Spectrum |
| | purpose | 1..Unbounded | Calibration, Check-out, Engineering, Nav- |

| Name: Primary_Result_Summary | | | Version Id: 2.3.0.0 |
|-------------------------------------|----------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | igation, Observation Geometry, Science |
| | data_regime *Deprecated* | 0..Unbounded | Dust, Electric Field, Electrons, Far Infrared, Gamma Ray, Infrared, Ions, Magnetic Field, Microwave, Millimeter, Near Infrared, Particles, Pressure, Radio, Sub-Millimeter, Temperature, Ultraviolet, Visible, X-Ray |
| | processing_level | 1..Unbounded | Calibrated, Derived, Partially Processed, Raw, Telemetry |
| | processing_level_id *Deprecated* | 0..1 | Calibrated, Derived, Partially Processed, Raw, Telemetry |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Science_Facet | 0..Unbounded | Science_Facets |

Referenced from: Context_Area, Observation_Area

Product

| Name: Product | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> A Product is a uniquely identified object that is managed by a registry/repository. It consists of one or more tagged data objects. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_identification_area | 1..1 | Identification_Area |

Referenced from: None

Product_Components

| Name: Product_Components | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Product Component class is an abstract class for the components of the Product class. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |

Referenced from: None

Property_Map

| Name: Property_Map | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Property Map class defines a table consisting of a set of data elements and their values. The data elements in this table are considered to be locally defined and not subject to standards except for nomenclature rules. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Property_Map | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | identifier | 0..1 | None |
| | title | 0..1 | None |
| | model_object_id | 1..1 | None |
| | model_object_type | 1..1 | None |
| | instance_id | 0..Unbounded | None |
| | external_namespace_id | 0..Unbounded | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Property_Map_Entry | 1..Unbounded | Property_Map_Entry |
| <i>Referenced from:</i> Property_Maps | | | |

Property_Map_Entry

| Name: Property_Map_Entry | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------|----------------------|-----------------------|------------------------------------------------------------|
| <i>Description:</i> The property map entry consists of a property name and one or more values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Property_Map_Entry | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | property_map_type | 0..1 | Nuance, Query Model, Rationale, Synonym, Velocity Variable |
| | property_map_subtype | 0..1 | None |
| | property_name | 1..1 | None |
| | property_value | 1..Unbounded | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Property_Map | | | |

Property_Maps

| Name: Property_Maps | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Property Maps class defines a collection of one or more related Property Maps. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Property_Maps | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |

| Name: Property_Maps | | | Version Id: 1.0.0.0 |
|------------------------------------|--------------------------|--------------------|----------------------------|
| | identifier | 1..1 | None |
| | title | 0..1 | None |
| | namespace_id | 1..1 | None |
| | description | 0..1 | None |
| | external_property_map_id | 0..Unbounded | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_property_map | 1..Unbounded | Property_Map |
| <i>Referenced from:</i> Ingest_LDD | | | |

Quaternion

| Name: Quaternion | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|-----------------------------|
| <i>Description:</i> The Quaternion class models a mathematical construct that consists of four individual numeric components. Quaternions are a convenient mechanism for encapsulating orientation information since they require only four units of numeric storage, as opposed to the nine needed for a rotation matrix. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Quaternion | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | local_identifier | 0..1 | None |
| | type | 1..1 | SPICE, Spacecraft Telemetry |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| | quaternion_component | 4..4 | Quaternion_Component |
| <i>Referenced from:</i> None | | | |

Quaternion_Component

| Name: Quaternion_Component | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Quaternion_Component class provides a component of a quaternion. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Quaternion_Component | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | data_type | 1..1 | ASCII_Real |
| | value | 1..1 | None |
| | sequence_number | 1..1 | None |
| | description | 0..1 | None |

| | |
|-----------------------------------|----------------------------|
| Name: Quaternion_Component | Version Id: 1.0.0.0 |
| No Associations | |
| Referenced from: | Quaternion |

Record

| | | | |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: Record | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Record class defines a record of a file and is the parent class of all specific record classes. | | | |
| Namespace Id: pds | Steward: pds | Role: abstract | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Record | | | |
| Attribute(s) | Name | Cardinality | Value |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| No Associations | | | |
| Referenced from: None | | | |

Record_Binary

| | | | |
|------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------------------------|
| Name: Record_Binary | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Record_Binary class is a component of the table class and defines a record of the table. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Record :: Record_Binary | | | |
| Attribute(s) | Name | Cardinality | Value |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | record_length | 1..1 | None |
| Association(s) | Name | Cardinality | Class |
| | has_Table_Field | 1..Unbounded | Field_Binary, Group_Field_Binary |
| Referenced from: Table_Binary | | | |

Record_Character

| | | | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|----------------|
| Name: Record_Character | Version Id: 1.1.0.0 | | |
| <i>Description:</i> The Record_Character class is a component of the table class and defines a record of the table. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Record :: Record_Character | | | |
| Attribute(s) | Name | Cardinality | Value |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | record_length | 1..1 | None |

| Name: Record_Character | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------|---------------------|--------------------|-------------------------------------------|
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Character_Field | 1..Unbounded | Field_Character, Group_Field_Character |
| <i>Referenced from:</i> Table_Character, Transfer_Manifest | | | |

Record_Delimited

| Name: Record_Delimited | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------------------------------|
| <i>Description:</i> The Record_Delimited class is a component of the delimited table (spreadsheet) class and defines a record of the delimited table. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Record :: Record_Delimited | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | fields | 1..1 | None |
| | groups | 1..1 | None |
| | maximum_record_length | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Delimited_Field | 1..Unbounded | Field_Delimited, Group_Field_Delimited |
| <i>Referenced from:</i> Inventory, Manifest_SIP_Deep_Archive, Table_Delimited | | | |

Reference_List

| Name: Reference_List | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Reference_List class provides general references, cross-references, and source products for the product. References cited elsewhere in the label need not be repeated here. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Reference_List | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 0..Unbounded | Internal_Reference |
| | external_reference | 0..Unbounded | External_Reference |
| | source_product_internal | 0..Unbounded | Source_Product_Internal |
| | source_product_external | 0..Unbounded | Source_Product_External |
| <i>Referenced from:</i> Product_AIP, Product_Ancillary, Product_Attribute_Definition, Product_Browse, Product_Bundle, Product_Class_Definition, Product_Collection, Product_Context, Product_DIP, Product_DIP_Deep_Archive, Product_Data_Set_PDS3, Product_Document, Product_File_Repository, Product_File_Text, Product_Instrument_Host_PDS3, Product_Instrument_PDS3, Product_Metadata_Supplemental, Product_Mission_PDS3, Product_Native, Product_Observational, Product_Proxy_PDS3, Product_SIP, Product_SIP_Deep_Archive, Product_SPICE_Kernel, Product_Service, Product_Software, Product_Subscription_PDS3, Product_Target_PDS3, Product_Thumbnail, Product_Update *Deprecated*, Product_Volume_PDS3, Product_Volume_Set_PDS3, Product_XML_Schema | | | |

Resource

| Name: Resource | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Resource class provides a description of a web resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Resource | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | type | 1..1 | Information.Agency, Information.Instrument, Information.Instrument_Host, Information.Investigation, Information.Node, Information.Person, Information.Resource, Information.Science_Portal, Information.Target, System.Browse, System.Directory_Listing, System.Registry_Query, System.Search, System.Transform, System.Transport |
| | url | 1..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Product_Context | | | |

SIP_Deep_Archive

| Name: SIP_Deep_Archive | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The SIP Deep Archive class is a Submission Information Package (SIP) for the NASA planetary science deep archive. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package :: SIP_Deep_Archive | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | description | 1..1 | None |
| | provider_site_id | 1..1 | PDS_ATM, PDS_ENG, PDS_GEO, PDS_IMG, PDS_JPL, PDS_NAI, PDS_PPI, PDS_PSI, PDS_RNG, PDS_SBN |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_SIP_Deep_Archive | | | |

SPICE_Kernel

| Name: SPICE_Kernel | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------------------|
| <i>Description:</i> The SPICE Kernel class describes a SPICE object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: SPICE_Kernel | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | SPICE |
| | description | 0..1 | None |
| | kernel_type | 1..1 | CK, DBK, DSK, EK, FK, IK, LSK, MK, PCK, SCLK, SPK |
| | encoding_type | 1..1 | Binary, Character |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_SPICE_Kernel | | | |

SPICE_Kernel_Object

| Name: SPICE_Kernel_Object | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The SPICE Kernel Object defines a Supplemental Object that provides navigation ancillary information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object :: SPICE_Kernel_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Science_Facets

| Name: Science_Facets | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Science_Facets class contains the science-related search facets. It is optional and may be repeated if a product has facets related to, for example, two different disciplines (as defined by the discipline_name facet). Note that Science_Facets was modeled with Discipline_Facets as a component and Discipline_Facets was modeled with Group_Facet1 and Group_Facet2 as components. This dependency hierarchy was flattened and only Science_Facets exists in the schema. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Science_Facets | | | |

| Name: Science_Facets | | | Version Id: 1.0.0.0 |
|-----------------------------|-----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------|
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | wavelength_range | 0..Unbounded | Far Infrared, Gamma Ray, Infrared, Microwave, Millimeter, Near Infrared, Radio, Submillimeter, Ultraviolet, Visible, X-ray |
| | domain | 0..Unbounded | Atmosphere, Dynamics, Heliosheath, Heliopause, Interior, Interstellar, Ionosphere, Magnetosphere, Rings, Surface |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | has_Discipline_Facets | 1..1 | Discipline_Facets |

Referenced from: Primary_Result_Summary

Service

| Name: Service | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|---------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Service class provides a description of a web service or tool. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Service | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | abstract_desc | 1..1 | None |
| | version_id | 0..1 | None |
| | url | 1..Unbounded | None |
| | release_date | 0..1 | None |
| | service_type | 1..1 | Service, Tool |
| | interface_type | 0..Unbounded | API, Command-Line, GUI, Service |
| | category | 1..Unbounded | Analysis, Design, Dissemination, Generation, Planning, Reader, Search, Transformation, Validation, Visualization |
| | software_language | 0..Unbounded | None |
| | supported_operating_system_note | 0..1 | None |
| | system_requirements_note | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |

| | |
|-----------------------------------------|----------------------------|
| Name: Service | Version Id: 1.0.0.0 |
| <i>Referenced from:</i> Product_Service | |

Service_Description

| | | | |
|----------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Service_Description | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Service Description class defines a file that contains a standardized service specification. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Service_Description | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | WADL, WSDL 2.n |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Service_Description | | | |

Software

| | | | |
|-----------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Software | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Software class describes a software product | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Software | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | software_version_id | 1..1 | None |
| | version_id *Deprecated* | 0..1 | None |
| | author_list | 0..1 | None |
| | programmers_manual_id | 1..1 | None |
| | software_id | 1..1 | None |
| | software_type | 1..1 | None |
| | users_manual_id | 1..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> Product_Software | | | |

Software_Binary

| Name: Software_Binary | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------|-----------------------|
| <i>Description:</i> The Software Binary class provides a description of a software code that is stored as a compiled binary file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Software_Binary | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | files | 1..1 | None |
| | os_version | 1..Unbounded | None |
| | program_notes_id | 1..1 | None |
| | software_format_type | 1..1 | None |
| | supported_architecture_note | 1..Unbounded | None |
| | supported_operating_system_note | 1..Unbounded | None |
| | system_requirements_note | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> Product_Software | | | |

Software_Script

| Name: Software_Script | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|-----------------------|
| <i>Description:</i> The Software Script class provides a description of a software code that is stored as a script. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Software_Script | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | files | 1..1 | None |
| | install_note | 1..1 | None |
| | supported_environment_note | 1..1 | None |
| | system_requirements_note | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> Product_Software | | | |

Software_Source

| Name: Software_Source | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The Software Source class provides a description of a software code that is stored as source code. | | | |

Support classes in
the pds namespace.

| Name: Software_Source | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------|---------------------------------|-----------------------|----------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Software_Source | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | compile_note | 1..1 | None |
| | files | 1..1 | None |
| | os_version | 1..1 | None |
| | program_notes_id | 1..1 | None |
| | software dialect | 1..1 | None |
| | software_format_type | 1..1 | None |
| | software_language | 1..1 | None |
| | supported_architecture_note | 1..Unbounded | None |
| | supported_operating_system_note | 1..Unbounded | None |
| | system_requirements_note | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> Product_Software | | | |

Source_Product_External

| Name: Source_Product_External | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Source_Product_External class is used to reference one or more source products (a product containing input data for the creation of this product) outside the PDS4 Registry that have a common reference_type, doi, curating facility, and/or description. At least one of doi or curating facility must be provided. All source products listed within a single Source_Product_External class must correspond to the same doi and/or curating facility. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Source_Product_External | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | external_source_product_identifier | 1..Unbounded | None |
| | reference_type | 1..1 | data_to_calibrated_source_product, data_to_derived_source_product, data_to_partially_processed_source_product, data_to_raw_source_product, data_to_telemetry_source_product |
| | doi | 0..1 | None |
| | curating_facility | 0..1 | None |
| | description | 0..1 | None |
| <i>No Associations</i> | | | |

| | |
|----------------------------------------|----------------------------|
| Name: Source_Product_External | Version Id: 1.0.0.0 |
| <i>Referenced from:</i> Reference_List | |

Source_Product_Internal

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: Source_Product_Internal | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Source_Product_Internal class is used to reference one or more source products in the PDS4 registry system. A source product contains input data for the creation of this product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Source_Product_Internal | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | lidvid_reference | 1..Unbounded | None |
| | reference_type | 1..1 | data_to_calibrated_source_product, data_to_derived_source_product, data_to_partially_processed_source_product, data_to_raw_source_product, data_to_telemetry_source_product |
| | comment | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Reference_List | | | |

Special_Constants

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------|-----------------------|
| Name: Special_Constants | Version Id: 1.1.0.0 | | |
| <i>Description:</i> The Special Constants class provides a set of values used to indicate special cases that occur in the data. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Special_Constants | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | saturated_constant | 0..1 | None |
| | missing_constant | 0..1 | None |
| | error_constant | 0..1 | None |
| | invalid_constant | 0..1 | None |
| | unknown_constant | 0..1 | None |
| | not_applicable_constant | 0..1 | None |
| | valid_maximum | 0..1 | None |
| | high_instrument_saturation | 0..1 | None |
| | high_representation_saturation | 0..1 | None |
| | valid_minimum | 0..1 | None |

| Name: Special_Constants | | | Version Id: 1.1.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|----------------------------|
| | low_instrument_saturation | 0..1 | None |
| | low_representation_saturation | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Array, Array_1D *Deprecated*, Array_2D, Array_2D_Image, Array_2D_Map, Array_2D_Spectrum, Array_3D, Array_3D_Image, Array_3D_Movie, Array_3D_Spectrum, Field_Binary, Field_Bit, Field_Character, Field_Delimited | | | |

Stream_Text

| Name: Stream_Text | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------------------------------------|
| <i>Description:</i> The Stream text class defines a text object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Stream_Text | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | 7-Bit ASCII Text, PDS3, UTF-8 Text |
| | description | 0..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental, File_Area_Text | | | |

Submission_Information_Package

| Name: Submission_Information_Package | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Submission Information Package (SIP) class is an Information Package that is delivered by a Data Provider to an archive that conforms to the Open Archive Information System (OAIS) Reference Model for use in the construction of one or more AIPs. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Information_Package :: Submission_Information_Package | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_SIP | | | |

Supplemental_Object

| Name: Supplemental_Object | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Supplemental Object defines a Digital Object that is supplementary to an Observational Object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Symbolic_Literals_PDS

| Name: Symbolic_Literals_PDS | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|---------------------------------------------|
| <i>Description:</i> The Symbolic_Literals_PDS class is used to collect orphan attributes for the pds namespace. These attributes are members by default of the USER class but not members of any domain class. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Symbolic_Literals_PDS | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | nil_reason | 0..1 | anticipated, inapplicable, missing, unknown |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

TNDO_Context

| Name: TNDO_Context | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Tagged NonDigital Object (TNDO) Context class is an abstract class for the context class hierarchy. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

TNDO_Supplemental

| Name: TNDO_Supplemental | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Tagged NonDigital Object (TNDO) Supplemental class is an abstract class for the supplemental class hierarchy. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental | | | |
| <i>No Attributes</i> | | | |

Support classes in
the pds namespace.

| | |
|--------------------------------|----------------------------|
| Name: TNDO_Supplemental | Version Id: 1.0.0.0 |
| No Associations | |
| Referenced from: | None |

Table_Base

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Table_Base | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Table Base class defines a heterogeneous repeating record of scalars. The Table Base class is the parent class for all heterogeneous repeating record of scalars. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Table_Base | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | records | 1..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| Referenced from: None | | | |

Table_Binary

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|-----------------------|
| Name: Table_Binary | Version Id: 1.1.0.0 | | |
| <i>Description:</i> The Table Binary class is an extension of table base and defines a simple binary table. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Table_Base :: Table_Binary | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | records | 1..1 | None |
| | description | 0..1 | None |
| | record_delimiter *Deprecat* | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| | uniformly_sampled | 0..1 | Uniformly_Sampled |
| | has_Record | 1..1 | Record_Binary |
| Referenced from: File_Area_Ancillary, File_Area_Browse, File_Area_Observational, File_Area_Observational_Supplemental | | | |

Table_Character

| Name: Table_Character | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------------------------------------|
| <i>Description:</i> The Table Character class is an extension of table base and defines a simple character table. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Table_Base :: Table_Character | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | records | 1..1 | None |
| | description | 0..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| | uniformly_sampled | 0..1 | Uniformly_Sampled |
| | has_Record | 1..1 | Record_Character |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Metadata, File_Area_Observational, File_Area_Observational_Supplemental, File_Area_Update *Deprecated* | | | |

Table_Delimited

| Name: Table_Delimited | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------------------------------------|
| <i>Description:</i> The Table_Delimited class defines a simple table (spreadsheet) with delimited fields and records. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: Table_Delimited | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | PDS DSV 1 |
| | description | 0..1 | None |
| | records | 1..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |

| Name: Table_Delimited | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|------------------------------------------------------------------------------------------------|
| | field_delimiter | 1..1 | Comma, Horizontal Tab, Semicolon, Vertical Bar, comma, horizontal tab, semicolon, vertical bar |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| | uniformly_sampled | 0..1 | Uniformly_Sampled |
| | has_delimited_record | 1..1 | Record_Delimited |
| <i>Referenced from:</i> File_Area_Ancillary, File_Area_Browse, File_Area_Metadata, File_Area_Observational, File_Area_Observational_Supplemental, File_Area_Update *Deprecated* | | | |

Tagged_Digital_Child

| Name: Tagged_Digital_Child | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Tagged Digital Child class is an abstract class for the components of classes in the tagged digital object class hierarchy. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Tagged_Digital_Object

| Name: Tagged_Digital_Object | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Tagged Digital Object class is an abstract class for the digital class hierarchy. A tagged object is an information object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Tagged_NonDigital_Child

| Name: Tagged_NonDigital_Child | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Tagged NonDigital Child class is an abstract class for the components of classes in the tagged nondigital object class hierarchy. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Tagged_NonDigital_Object

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Tagged_NonDigital_Object | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Tagged NonDigital Object class is an abstract class for the physical and conceptual class hierarchy. A tagged object is an information object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> abstract | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Target

| | | | |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: Target | Version Id: 1.3.0.0 | | |
| <i>Description:</i> The Target class provides a description of a physical object that is the object of data collection. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Target | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | type | 0..Unbounded | Asteroid, Calibration, Calibration Field, Calibrator, Centaur, Comet, Dust, Dwarf Planet, Equipment, Exoplanet System, Galaxy, Globular Cluster, Laboratory Analog, Lunar Sample, Magnetic Field, Meteorite, Meteoroid, Meteoroid Stream, Nebula, Open Cluster, Planet, Planetary Nebula, Planetary System, Plasma Cloud, Plasma Stream, Ring, Sample, Satellite, Star, Star Cluster, Synthetic Sample, Terrestrial Sample, Trans-Neptunian Object |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |
| <i>Referenced from:</i> Product_Context | | | |

Target_Identification

| | |
|----------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Target_Identification | Version Id: 1.4.0.0 |
| <i>Description:</i> The Target_Identification class provides detailed target identification information. | |

| Name: Target_Identification | | | Version Id: 1.4.0.0 |
|---------------------------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Target_Identification | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | alternate_designation | 0..Unbounded | None |
| | type | 1..Unbounded | Asteroid, Calibration, Calibration Field, Calibrator, Centaur, Comet, Dust, Dwarf Planet, Equipment, Exoplanet System, Galaxy, Globular Cluster, Laboratory Analog, Lunar Sample, Magnetic Field, Meteorite, Meteoroid, Meteoroid Stream, Nebula, Open Cluster, Planet, Planetary Nebula, Planetary System, Plasma Cloud, Plasma Stream, Ring, Sample, Satellite, Star, Star Cluster, Synthetic Sample, Terrestrial Sample, Trans-Neptunian Object |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 0..1 | Internal_Reference |
| <i>Referenced from:</i> Context_Area, Observation_Area | | | |

Telescope

| Name: Telescope | | | Version Id: 1.3.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Telescope class provides coordinates and parameters for terrestrial, ground-based telescopes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Telescope | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | aperture | 1..1 | None |
| | telescope_longitude | 0..1 | None |
| | telescope_latitude | 0..1 | None |
| | telescope_altitude | 0..1 | None |
| | altitude *Deprecated* | 0..1 | None |
| | coordinate_source | 0..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |

| | |
|-----------------------------------------|----------------------------|
| Name: Telescope | Version Id: 1.3.0.0 |
| <i>Referenced from:</i> Product_Context | |

Term_Map_SKOS

| | | | |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|---------------------------|
| Name: Term_Map_SKOS | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Term_Map_SKOS class is used to collect a set of terms and definitions for a SKOS ontology. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Term_Map_SKOS | | | |
| <i>No Attributes</i> | | | |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | Term_Map_SKOS_to_Term_Entry_SKOS | 1..Unbounded | Terminological_Entry_SKOS |
| <i>Referenced from:</i> None | | | |

Terminological_Entry

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------------|
| Name: Terminological_Entry | Version Id: 1.1.0.0 | | |
| <i>Description:</i> The terminological_entry class provides the name (designation) and definition of the attribute in a specified natural language. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Terminological_Entry | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | definition | 1..1 | None |
| | language | 1..1 | English, Russian |
| | preferred_flag | 1..1 | None |
| | instance_id | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | source | 0..Unbounded | External_Reference_Extended |
| <i>Referenced from:</i> DD_Attribute, DD_Attribute_Full, DD_Class, DD_Class_Full, DD_Permissible_Value, DD_Permissible_Value_Full | | | |

Terminological_Entry_SKOS

| | | | |
|-------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Terminological_Entry_SKOS | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The terminological_entry_SKOS class provides terms and definitions for a SKOS ontology. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Terminological_Entry_SKOS | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | identifier | 1..1 | None |
| | registration_authority | 0..1 | PDS3, PDS4, VICAR |

| Name: Terminological_Entry_SKOS | | | Version Id: 1.0.0.0 |
|----------------------------------------|-----------------------|------|-----------------------------------------------------------------|
| | namespace_id | 1..1 | None |
| | steward_id | 1..1 | None |
| | title | 1..1 | None |
| | description | 1..1 | None |
| | referenced_identifier | 0..1 | None |
| | skos_relation_name | 1..1 | broadMatch, close-Match, exactMatch, narrowMatch, related-Match |
| | model_object_id | 0..1 | None |
| | model_object_type | 1..1 | Attribute, Class, Keyword, Nuance, Value |
| | instance_id | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Term_Map_SKOS | | | |

Time_Coordinates

| Name: Time_Coordinates | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Time_Coordinates class provides a list of time coordinates. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Time_Coordinates | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | start_date_time | 1..1 | None |
| | stop_date_time | 1..1 | None |
| | local_mean_solar_time | 0..1 | None |
| | local_true_solar_time | 0..1 | None |
| | solar_longitude | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Context_Area, Observation_Area | | | |

Transfer_Manifest

| Name: Transfer_Manifest | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Transfer_Manifest class defines a table that maps product LIDVIDs to the file_specificaiton_names of the products' XML label files. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Table_Base :: Table_Character :: Transfer_Manifest | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |

| Name: Transfer_Manifest | | | Version Id: 1.1.0.0 |
|--------------------------------|-------------------|-------------|------------------------------------------------------|
| | offset | 1..1 | None |
| | records | 1..1 | None |
| | description | 0..1 | None |
| | record_delimiter | 1..1 | Carriage-Return Line-Feed, carriage-return line-feed |
| Association(s) | Name | Cardinality | Class |
| | data_object | 1..1 | Digital_Object |
| | uniformly_sampled | 0..1 | Uniformly_Sampled |
| | has_Record | 1..1 | Record_Character |

Referenced from: File_Area_Transfer_Manifest

Type_List_Area

| Name: Type_List_Area | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|--------------|----------------|----------------------------|
| <i>Description:</i> The Type_List_Area allows the insertion of a Type List. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context :: Type_List_Area | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Instrument | | | |

Uniformly_Sampled

| Name: Uniformly_Sampled | | | Version Id: 1.1.0.0 |
|----------------------------------------------------------------------------------------------------|----------------------------------|----------------|----------------------------------|
| <i>Description:</i> The Uniformly_Sampled class provides parameters for a uniformly sampled table. | | | |
| Namespace Id: pds | Steward: pds | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Child :: Uniformly_Sampled | | | |
| Attribute(s) | Name | Cardinality | Value |
| | sampling_parameter_name | 1..1 | None |
| | sampling_parameter_interval | 1..1 | None |
| | sampling_parameter_unit | 1..1 | None |
| | first_sampling_parameter_value | 1..1 | None |
| | last_sampling_parameter_value | 1..1 | None |
| | sampling_parameter_scale | 1..1 | Exponential, Linear, Logarithmic |
| | sampling_parameter_base | 0..1 | None |
| | sampling_parameters *Deprecated* | 0..1 | None |

Support classes in
the pds namespace.

| | |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Uniformly_Sampled | Version Id: 1.1.0.0 |
| No Associations | |
| <i>Referenced from:</i> Inventory, Manifest_SIP_Deep_Archive, Table_Binary, Table_Character, Table_Delimited, Transfer_Manifest | |

Update *Deprecated*

| | | | |
|----------------------------------------------------------------------------------------------|-----------------------------|-----------------------|-----------------------------------------------------|
| Name: Update *Deprecated* | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Update class consists of update information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Deprecated |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Update *Deprecated* | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | local_identifier | 0..1 | None |
| | update_purpose *Deprecated* | 1..1 | Update Label Metadata, Update Supplemental Metadata |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| | update_entry | 1..Unbounded | Update_Entry |
| <i>Referenced from:</i> Product_Update *Deprecated* | | | |

Update_Entry

| | | | |
|--------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Update_Entry | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Update Entry class provides the date and description of an update. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Product_Components :: Update_Entry | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | date_time | 1..1 | None |
| | full_name | 1..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | internal_reference | 0..1 | Internal_Reference |
| <i>Referenced from:</i> Update *Deprecated* | | | |

Update_Object

| | | | |
|--------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|-----------------------|
| Name: Update_Object | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The Update Object defines a Supplemental Object that is used to update an other Objects. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Data_Object :: Digital_Object :: Supplemental_Object :: Update_Object | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |

| Name: Update_Object | | | Version Id: 1.0.0.0 |
|------------------------------|------------|------|----------------------------|
| | bit_string | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Vector

| Name: Vector | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------|---------------------|-----------------------|--------------------------------------------|
| <i>Description:</i> The Vector class provides the components of either a velocity or position vector. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Vector | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 1..1 | None |
| | local_identifier | 0..1 | None |
| | type | 1..1 | Acceleration, Pointing, Position, Velocity |
| | data_type | 1..1 | ASCII_Real |
| | reference_frame_id | 1..1 | ICRF, MOON_ME_DE421 |
| | vector_components | 1..1 | None |
| | description | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| | vector_component | 1..Unbounded | Vector_Component |
| <i>Referenced from:</i> None | | | |

Vector_Cartesian_3

| Name: Vector_Cartesian_3 | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Vector_Cartesian_3_Base class is the parent class of 3 element Cartesian vectors. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Vector_Cartesian_3 | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | reference_frame_id | 1..1 | ICRF, MOON_ME_DE421 |
| | x | 1..1 | None |
| | y | 1..1 | None |
| | z | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Vector_Cartesian_3_Acceleration

| Name: Vector_Cartesian_3_Acceleration | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Vector_Cartesian_3_Acceleration class is a 3 element Cartesian vector for acceleration coordinates. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Vector_Cartesian_3 :: Vector_Cartesian_3_Acceleration | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | reference_frame_id | 1..1 | ICRF, MOON_ME_DE421 |
| | x | 1..1 | None |
| | y | 1..1 | None |
| | z | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Vector_Cartesian_3_Pointing

| Name: Vector_Cartesian_3_Pointing | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Vector_Cartesian_3_Pointing class is a 3 element normalized Cartesian vector for pointing. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Vector_Cartesian_3 :: Vector_Cartesian_3_Pointing | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | reference_frame_id | 1..1 | ICRF, MOON_ME_DE421 |
| | x | 1..1 | None |
| | y | 1..1 | None |
| | z | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Vector_Cartesian_3_Position

| Name: Vector_Cartesian_3_Position | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------------|
| <i>Description:</i> The Vector_Cartesian_3_Position class is a 3 element Cartesian vector for position coordinates. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Vector_Cartesian_3 :: Vector_Cartesian_3_Position | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | reference_frame_id | 1..1 | ICRF, MOON_ME_DE421 |

| Name: Vector_Cartesian_3_Position | | | Version Id: 1.0.0.0 |
|------------------------------------------|---|------|----------------------------|
| | x | 1..1 | None |
| | y | 1..1 | None |
| | z | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Vector_Cartesian_3_Velocity

| Name: Vector_Cartesian_3_Velocity | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Vector_Cartesian_3_Velocity class is a 3 element Cartesian vector for velocity coordinates. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Vector_Cartesian_3 :: Vector_Cartesian_3_Velocity | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | reference_frame_id | 1..1 | ICRF, MOON_ME_DE421 |
| | x | 1..1 | None |
| | y | 1..1 | None |
| | z | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Vector_Component

| Name: Vector_Component | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Vector_Component class provides a component of a vector. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Child :: Vector_Component | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | unit | 0..1 | None |
| | value | 1..1 | None |
| | sequence_number | 1..1 | None |
| | description | 0..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Vector | | | |

XML_Schema

| Name: XML_Schema | | | Version Id: 1.2.0.0 |
|--------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The XML Schema class defines a resource used for the PDS4 implementation into XML. | | | |

| Name: XML_Schema | | | Version Id: 1.2.0.0 |
|----------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_Digital_Object :: Byte_Stream :: Parsable_Byte_Stream :: XML_Schema | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | name | 0..1 | None |
| | local_identifier | 0..1 | None |
| | md5_checksum | 0..1 | None |
| | offset | 1..1 | None |
| | object_length | 0..1 | None |
| | parsing_standard_id | 1..1 | Schematron ISO/IEC 19757-3:2006, XML Schema Version 1.1 |
| | description | 0..1 | None |
| | ldd_version_id | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Digital_Object |
| <i>Referenced from:</i> File_Area_XML_Schema | | | |

Zip

| Name: Zip | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Zip class describes a zip file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Supplemental :: Zip | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | container_type | 1..1 | GZIP, LZIP, TAR, ZIP |
| | description | 1..1 | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_Zipped | | | |

Chapter 4. PDS3 catalog classes in the pds namespace.

These classes are used to archive PDS3 catalog information.

Data_Set_PDS3

| Name: Data_Set_PDS3 | | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Data Set PDS3 class is used to capture the data set information from the PDS3 Data Set Catalog. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Data_Set_PDS3 | | | |
| Attribute(s) | Name | Cardinality | Value |
| | data_set_id | 1..1 | None |
| | data_set_name | 1..1 | None |
| | data_set_release_date | 1..1 | None |
| | start_time | 0..1 | None |
| | start_date_time *Deprecated* | 0..1 | None |
| | stop_time | 0..1 | None |
| | stop_date_time *Deprecated* | 0..1 | None |
| | producer_full_name | 1..1 | None |
| | citation_text | 1..1 | None |
| | data_set_terse_desc | 1..1 | None |
| | abstract_desc | 1..1 | None |
| | data_set_desc | 1..1 | None |
| | confidence_level_note | 1..1 | None |
| | archive_status | 1..1 | ARCHIVED, ARCHIVED_ACCUMULATING, IN_LIEN_RESOLUTION, IN_LIEN_RESOLUTION_ACCUMULATING, IN_PEER_REVIEW, IN_PEER_REVIEW_ACCUMULATING, IN_QUEUE, IN_QUEUE_ACCUMULATING, LOCALLY_ARCHIVED, LOCALY_ARCHIVED_ACCUMULATING, PRE_PEER_REVIEW, PRE_PEER REVIEW_ACCUMULATING, |

| Name: Data_Set_PDS3 | | | Version Id: 1.1.0.0 |
|----------------------------|-------------|--------------------|---------------------------------------|
| | | | LATING, SAFED, SUPERSEDED |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object, Physical_Object |
| | nssdc | 0..Unbounded | NSSDC |

Referenced from: Product_Data_Set_PDS3

Instrument_Host_PDS3

| Name: Instrument_Host_PDS3 | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|----------------------------|
| <i>Description:</i> The Instrument Host class provides a description of the physical object upon which an instrument is mounted. This class captures the PDS3 catalog Instrument Host information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Instrument_Host_PDS3 | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | instrument_host_name | 1..1 | None |
| | instrument_host_desc | 1..1 | None |
| | instrument_host_id | 1..1 | None |
| | instrument_host_type | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |

Referenced from: Product_Instrument_Host_PDS3

Instrument_PDS3

| Name: Instrument_PDS3 | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Instrument class provides a description of a physical object that collects data. This class captures the PDS3 catalog Instrument information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Instrument_PDS3 | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | instrument_name | 1..1 | None |
| | instrument_desc | 1..1 | None |
| | instrument_id | 1..1 | None |
| | instrument_serial_number | 1..1 | None |
| | instrument_type | 1..1 | None |
| | instrument_version_id | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Physical_Object |

Referenced from: Product_Instrument_PDS3

Mission_PDS3

| Name: Mission_PDS3 | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|----------------------------|
| <i>Description:</i> The Mission PDS3 class describes an activity involved in the collection of data. This class captures the PDS3 catalog Mission information. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Mission_PDS3 | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | mission_name | 1..1 | None |
| | mission_desc | 1..1 | None |
| | mission_objectives_summary | 1..1 | None |
| | mission_start_date | 1..1 | None |
| | mission_stop_date | 1..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object |
| <i>Referenced from:</i> Product_Mission_PDS3 | | | |

Subscriber_PDS3

| Name: Subscriber_PDS3 | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Subscriber PDS3 class provides the name of the subscriber and their subscription list. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Subscriber_PDS3 | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | full_name | 1..1 | None |
| | local_identifier | 0..1 | None |
| | subscription_id | 1..Unbounded | None |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> Product_Subscription_PDS3 | | | |

TNDO_Context_PDS3

| Name: TNDO_Context_PDS3 | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|----------------------------|
| <i>Description:</i> The Tagged NonDigital Object (TNDO) Context PDS3 class is an abstract class for the PDS3 context class hierarchy. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 | | | |
| <i>No Attributes</i> | | | |
| <i>No Associations</i> | | | |
| <i>Referenced from:</i> None | | | |

Target_PDS3

| Name: Target_PDS3 | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------------|
| <i>Description:</i> The Target class provides a description of a physical object that is the object of data collection. This class captures the PDS3 catalog Target information. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Target_PDS3 | | | |
| <i>Attribute(s)</i> | Name | Cardinality | Value |
| | target_name | 1..1 | None |
| | orbit_direction | 0..Unbounded | None |
| | primary_body_name | 1..1 | None |
| | rotation_direction | 0..1 | None |
| | target_desc | 1..1 | None |
| | target_type | 1..1 | None |
| <i>Association(s)</i> | Name | Cardinality | Class |
| | data_object | 1..1 | Physical_Object |
| <i>Referenced from:</i> Product_Target_PDS3 | | | |

Volume_PDS3

| Name: Volume_PDS3 | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The Volume_PDS3 class is used to capture the volume information from the PDS3 Data Set Catalog. | | | |
| Namespace Id: pds | Steward: ops | Role: concrete | Status: Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Volume_PDS3 | | | |
| <i>Attribute(s)</i> | Name | Cardinality | Value |
| | archive_status | 1..1 | ARCHIVED, ARCHIVED_ACCUMULATING, IN_LIEN_RESOLUTION, IN_LIEN_RESOLUTION_ACCUMULATING, IN_PEER_REVIEW, IN_PEER_REVIEW_ACCUMULATING, IN_QUEUE, IN_QUEUE_ACCUMULATING, LOCALLY_ARCHIVED, LOCALY_ARCHIVED_ACCUMULATING, PRE_PEER_REVIEW, PRE_PEER_REVIEW_ACCUMULATING, SAFED, SUPERSEDED |
| | archive_status_note | 1..1 | None |
| | curating_node_id | 0..Unbounded | None |

| Name: Volume_PDS3 | | | Version Id: 1.0.0.0 |
|---------------------------------------------|--------------------|--------------------|---------------------------------------|
| | medium_type | 1..1 | None |
| | publication_date | 1..1 | None |
| | volume_de_fullname | 1..1 | None |
| | volume_format | 1..1 | None |
| | volume_id | 1..1 | None |
| | volume_name | 1..1 | None |
| | volume_set_id | 1..1 | None |
| | volume_size | 1..1 | None |
| | volume_version_id | 1..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object, Physical_Object |
| <i>Referenced from:</i> Product_Volume_PDS3 | | | |

Volume_Set_PDS3

| Name: Volume_Set_PDS3 | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------|
| <i>Description:</i> The Volume_Set_PDS3 class is used to capture the volume set information from the PDS3 Data Set Catalog. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Role:</i> concrete | <i>Status:</i> Active |
| <i>Class Hierarchy:</i> Tagged_NonDigital_Object :: TNDO_Context_PDS3 :: Volume_Set_PDS3 | | | |
| <i>Attribute(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Value</i> |
| | volume_series_name | 1..1 | None |
| | volume_set_id | 1..1 | None |
| | volume_set_name | 1..1 | None |
| | volumes | 1..1 | None |
| | description | 0..1 | None |
| <i>Association(s)</i> | <i>Name</i> | <i>Cardinality</i> | <i>Class</i> |
| | data_object | 1..1 | Conceptual_Object, Physical_Object |
| <i>Referenced from:</i> Product_Volume_Set_PDS3 | | | |

Chapter 5. Classes in the Rings discipline namespace.

These classes have been defined for the Rings science discipline and can be used in the label's discipline area.

Chapter 6. Classes in the Imaging discipline namespace.

These classes have been defined for the Imaging science discipline and can be used in the label's discipline area.

Chapter 7. Classes in the Cartography discipline namespace.

These classes have been defined for Cartography and can be used in the label's discipline area.

Chapter 8. Classes in the Display namespace.

This dictionary describes how to display Array data on a display device.

Chapter 9. Attributes in the pds namespace.

These attributes are used by the classes in the pds namespace.

abstract_desc in Data_Set_PDS3

| Name: abstract_desc | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|----------------------------|
| <i>Description:</i> The abstract desc attribute provides a summary of a text, scientific article, or document. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Data_Set_PDS3 | Type: ASCII_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Description | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

abstract_desc in Service

| Name: abstract_desc | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|------------------------------------|
| <i>Description:</i> The abstract desc attribute provides a summary of a text, scientific article, or document. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Service | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

abstract_flag in DD_Class

| Name: abstract_flag | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|----------------------------|
| <i>Description:</i> The abstract flag attribute indicates whether or not the class can be instantiated. Abstract flag is only included if a value of 'true' is desired and indicates that the class is abstract and cannot be used in a label. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Class | Type: ASCII_Boolean |
| Minimum Value: None | Maximum Value: None | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Flag | Conceptual Domain: Boolean |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

abstract_flag in DD_Class_Full

| Name: abstract_flag | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------|
| <i>Description:</i> The abstract flag attribute indicates whether or not the class can be instantiated. Abstract flag is only included if a value of 'true' is desired and indicates that the class is abstract and cannot be used in a label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Boolean |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Flag | <i>Conceptual Domain:</i> Boolean |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

acknowledgement_text in Document

| Name: acknowledgement_text | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------------------------------|
| <i>Description:</i> The acknowledgement_text attribute is a character string which recognizes another's contribution, authority, or right. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

address in Facility

| Name: address | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------|
| <i>Description:</i> The address attribute provides a mailing address. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Facility | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Address | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

affiliation_type in PDS_Affiliate

| Name: affiliation_type | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The affiliation type attribute describes the type of relationship an individual has with the PDS. Individuals with PDS affiliations are generally listed in the PDS Phone Book. | | | |

| Name: affiliation_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Affiliate | The individual has a relationship with PDS that is more substantial than 'none' or 'data user' and is not described by one of the other enumerated values | |
| | Data Provider | The individual prepares and/or delivers data to PDS | |
| | Manager | The individual is a manager within PDS | |
| | Technical Staff | The individual works for PDS in a technical capacity. | |

aip_label_checksum in Information_Package_Component_Deep_Archive

| Name: aip_label_checksum | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|----------------------------------------|
| <i>Description:</i> The aip_label_checksum attribute provides the checksum for the Archival Information Package label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Information_Package_Component_Deep_Archive | <i>Type:</i> ASCII_MD5_Checksum |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 32 | <i>Maximum Characters:</i> 32 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9a-fA-F]{32} | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

aip_lidvid in Information_Package_Component_Deep_Archive

| Name: aip_lidvid | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------|--------------------------------|
| <i>Description:</i> The aip_lidvid attribute provides the logical_identifier plus version_id, which uniquely identifies a Archival Information Package. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Information_Package_Component_Deep_Archive | <i>Type:</i> ASCII_LIDVID |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 18 | <i>Maximum Characters:</i> 255 |

| Name: aip_lidvid | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

alternate_designation in Target_Identification

| Name: alternate_designation | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------|------------------------------|------------------------------------------|-------------------------------------------|
| <i>Description:</i> The alternate_designation attribute provides aliases. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Target_Identification | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

alternate_id in Alias

| Name: alternate_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The alternate_id attribute provides an additional identifier supplied by the data provider. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Alias | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

alternate_telephone_number in PDS_Affiliate

| Name: alternate_telephone_number | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The telephone_number attribute provides a telephone number in international notation in compliance with the E.164 telephone number format recommendation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

alternate_title in Alias

| Name: alternate_title | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The alternate_title attribute provides an alternate title for the product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Alias | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Title | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

altitude in Telescope *Deprecated*

| Name: altitude *Deprecated* | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The altitude attribute provides the height of anything above a given reference plane. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Length | <i>Default Unit Id:</i> m | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

aperture in Telescope

| Name: aperture | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The aperture attribute provides the diameter of an opening, usually circular, that limits the quantity of light that can enter an optical instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 1.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Length | <i>Default Unit Id:</i> m | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

archive_status in Data_Set_PDS3

| Name: archive_status | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The ARCHIVE_STATUS attribute indicates the stage to which a data set has progressed in the archiving process, from IN_QUEUE through ARCHIVED. It can also take on the values SUPERSEDED or SAFED, which indicate that the data set is not part of the active archive. ACCUMULATING can be appended to some values to indicate that the data set is incomplete and/or that not all components have reached the stage given by the root value; ACCUMULATING | | | |

| Name: archive_status | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| would be used, for example, when the archive is being delivered incrementally, as from a mission that lasts many months or years. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Status | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ARCHIVED | Archive status of the PDS3 data set is ARCHIVED (passed peer review with all liens resolved. Available through the Data Set Catalog and at NSSDC). | |
| | ARCHIVED_ACCUMULATING | Archive status of the PDS3 data set is ARCHIVED_ACCUMULATING (some parts of the data set are ARCHIVED, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). | |
| | IN LIEN_RESOLUTION | Archive status of the PDS3 data set is IN LIEN_RESOLUTION (peer review completed; liens are in the process of being resolved; use with caution). | |
| | IN LIEN_RESOLUTION_ACCUMULATING | Archive status of the PDS3 data set is IN LIEN_RESOLUTION_ACCUMULATING (some parts of the data set are IN LIEN_RESOLUTION, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). | |
| | IN_PEER REVIEW | Archive status of the PDS3 data set is IN_PEER REVIEW (under peer review at the curation node but evaluation is not complete; use with caution). | |
| | IN_PEER REVIEW_ACCUMULATING | Archive status of the PDS3 data set is IN_PEER REVIEW_ACCUMULATING (some parts of the data set are IN_PEER REVIEW, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). | |
| | IN_QUEUE | Archive status of the PDS3 data set is IN_QUEUE (received at the curation node but no action has been taken by the curation node; use with caution). | |
| | IN_QUEUE_ACCUMULATING | Archive status of the PDS3 data set is IN_QUEUE_ACCUMULATING (some parts of the data set are IN_QUEUE, but other parts have not yet been delivered to PDS; use with caution). | |
| | LOCALLY_ARCHIVED | Archive status of the PDS3 data set is LOCAL-LY_ARCHIVED (passed peer review with all liens resolved; considered archived by the cura- | |

| Name: archive_status | | Version Id: 1.0.0.0 |
|-----------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | tion node but awaiting completion of the standard archiving process; possible TBD items include the arrival of the archive volume at NSSDC and ingestion of catalog information into the Data Set Catalog). |
| | LOCALLY_ARCHIVE_ACCUMULATING | Archive status of the PDS3 data set is LOCALLY_ARCHIVE_ACCUMULATING (some parts of the data set are LOCALLY ARCHIVED, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). |
| | PRE_PEER_REVIEW | Archive status of the PDS3 data set is PRE_PEER_REVIEW (being prepared for peer review under the direction of the curation node; use with caution).' |
| | PRE_PEER_REVIEW_ACCUMULATING | Archive status of the PDS3 data set is PRE_PEER_REVIEW_ACCUMULATING (some parts of the data set are in PRE_PEER REVIEW, but other parts are IN_QUEUE and/or have not yet been delivered to PDS; use with caution). |
| | SAFED | Archive status of the PDS3 data set is SAFED (the data set has been received by the PDS with no evaluation; data will not be formally archived). |
| | SUPERSEDED | Archive status of the PDS3 data set is SUPERSEDED (this data set has been replaced by a newer version, implying that the data set is not to be used unless the requester has specific reasons; when a data set has been superseded the Engineering Node, will notify NSSDC that their databases need to be updated to advise users of the new status and the location of the replacement data set). |

archive_status in Volume_PDS3

| Name: archive_status | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The ARCHIVE_STATUS attribute indicates the stage to which a data set has progressed in the archiving process, from IN_QUEUE through ARCHIVED. It can also take on the values SUPERSEDED or SAFED, which indicate that the data set is not part of the active archive. ACCUMULATING can be appended to some values to indicate that the data set is incomplete and/or that not all components have reached the stage given by the root value; ACCUMULATING would be used, for example, when the archive is being delivered incrementally, as from a mission that lasts many months or years. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Status | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: archive_status | | Version Id: 1.0.0.0 |
|-----------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | ARCHIVED | Archive status of the PDS3 volume is ARCHIVED (passed peer review with all liens resolved. Available through the Data Set Catalog and at NSSDC). |
| | ARCHIVED_ACCUMULATING | Archive status of the PDS3 volume is ARCHIVED_ACCUMULATING (some parts of the volume are ARCHIVED, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). |
| | IN LIEN_RESOLUTION | Archive status of the PDS3 volume is IN LIEN_RESOLUTION (peer review completed; liens are in the process of being resolved; use with caution). |
| | IN LIEN_RESOLUTION_ACCUMULATING | Archive status of the PDS3 volume is IN LIEN_RESOLUTION_ACCUMULATING (some parts of the volume are IN LIEN_RESOLUTION, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). |
| | IN_PEER REVIEW | Archive status of the PDS3 volume is IN_PEER REVIEW (under peer review at the curation node but evaluation is not complete; use with caution). |
| | IN_PEER REVIEW_ACCUMULATING | Archive status of the PDS3 volume is IN_PEER REVIEW_ACCUMULATING (some parts of the volume are IN_PEER REVIEW, but other parts are in earlier stages of the archiving process and/or have not yet been delivered to PDS; use with caution). |
| | IN_QUEUE | Archive status of the PDS3 volume is IN_QUEUE (received at the curation node but no action has been taken by the curation node; use with caution). |
| | IN_QUEUE_ACCUMULATING | Archive status of the PDS3 volume is IN_QUEUE_ACCUMULATING (some parts of the volume are IN_QUEUE, but other parts have not yet been delivered to PDS; use with caution). |
| | LOCALLY_ARCHIVED | Archive status of the PDS3 volume is LOCALLY_ARCHIVED (passed peer review with all liens resolved; considered archived by the curation node but awaiting completion of the standard archiving process; possible TBD items include the arrival of the archive volume at NSSDC and ingestion of catalog information into the Data Set Catalog). |
| | LOCALLY_ARCHIVED_ACCUMULATING | Archive status of the PDS3 volume is LOCALLY_ARCHIVED_ACCUMULATING (some parts of the volume are LOCALLY_ARCHIVED, but other parts are in earlier stages |

| Name: archive_status | | Version Id: 1.0.0.0 |
|-----------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | of the archiving process and/or have not yet been delivered to PDS; use with caution). |
| | PRE_PEER REVIEW | Archive status of the PDS3 volume is PRE_PEER REVIEW (being prepared for peer review under the direction of the curation node; use with caution). |
| | PRE_PEER REVIEW_ACCUMULATING | Archive status of the PDS3 volume is PRE_PEER REVIEW_ACCUMULATING (some parts of the volume are in PRE_PEER REVIEW, but other parts are IN_QUEUE and/or have not yet been delivered to PDS; use with caution). |
| | SAFED | Archive status of the PDS3 volume is SAFED (the volume has been received by the PDS with no evaluation; data will not be formally archived). |
| | SUPERSEDED | Archive status of the PDS3 volume is SUPERSEDED (this volume has been replaced by a newer version, implying that the volume is not to be used unless the requester has specific reasons; when a volume has been superseded the Engineering Node, will notify NSSDC that their databases need to be updated to advise users of the new status and the location of the replacement volume). |

archive_status_note in Volume_PDS3

| Name: archive_status_note | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------|-----------------------|----------------------------|----------------------------|
| <i>Description:</i> The archive status note attribute provides a comment about the archive status. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Volume_PDS3 | Type: ASCII_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Note | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

attribute_concept in DD_Attribute_Full

| Name: attribute_concept | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------|------------------------------------|
| <i>Description:</i> The attribute_concept attribute provides the type of information (classification) conveyed by the attribute -- e.g., stop_date_time has attribute_concept = date_time. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Attribute_Full | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: attribute_concept | | | Version Id: 1.0.0.0 |
|--------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Address | The attribute has been classified as being an Address | |
| | Angle | The attribute has been classified as being an Angle | |
| | Attribute | The attribute has been classified as being an Attribute | |
| | Bit | The attribute has been classified as being a Bit | |
| | Checksum | The attribute has been classified as being a Checksum | |
| | Collection | The attribute has been classified as being a Collection | |
| | Constant | The attribute has been classified as being a Constant | |
| | Cosine | The attribute has been classified as being a Cosine | |
| | Count | The attribute has been classified as being a Count | |
| | DOI | The attribute has been classified as being a DOI | |
| | Delimiter | The attribute has been classified as being a Delimiter | |
| | Description | The attribute has been classified as being a Description | |
| | Deviation | The attribute has been classified as being a Deviation | |
| | Direction | The attribute has been classified as being a Direction | |
| | Distance | The attribute has been classified as being a Distance | |
| | Duration | The attribute has been classified as being a Duration | |
| | Factor | The attribute has been classified as being a Factor | |
| | Flag | The attribute has been classified as being a Flag | |
| | Format | The attribute has been classified as being a Format | |
| | Group | The attribute has been classified as being a Group | |
| | Home | The attribute has been classified as being a Home | |
| | ID | The attribute has been classified as being an Identifier | |
| | Latitude | The attribute has been classified as being a Latitude | |

| Name: attribute_concept | | Version Id: 1.0.0.0 |
|--------------------------------|------------|---------------------------------------------------------|
| | Length | The attribute has been classified as being a Length |
| | List | The attribute has been classified as being a List |
| | Location | The attribute has been classified as being a Location |
| | Logical | The attribute has been classified as being a Logical |
| | Longitude | The attribute has been classified as being a Longitude |
| | Mask | The attribute has been classified as being a Mask |
| | Maximum | The attribute has been classified as being a Maximum |
| | Mean | The attribute has been classified as being a Mean |
| | Median | The attribute has been classified as being a Median |
| | Minimum | The attribute has been classified as being a Minimum |
| | Name | The attribute has been classified as being a Name |
| | Note | The attribute has been classified as being a Note |
| | Number | The attribute has been classified as being a Number |
| | Offset | The attribute has been classified as being an Offset |
| | Order | The attribute has been classified as being an Order |
| | Parallel | The attribute has been classified as being a Parallel |
| | Password | The attribute has been classified as being a Password |
| | Path | The attribute has been classified as being a Path |
| | Pattern | The attribute has been classified as being a Pattern |
| | Pixel | The attribute has been classified as being a Pixel |
| | Quaternion | The attribute has been classified as being a Quaternion |
| | Radius | The attribute has been classified as being a Radius |
| | Ratio | The attribute has been classified as being a Ratio |
| | Reference | The attribute has been classified as being a Reference |
| | Resolution | The attribute has been classified as being a Resolution |
| | Role | The attribute has been classified as being a Role |
| | Rotation | The attribute has been classified as being a Rotation |

| Name: attribute_concept | | Version Id: 1.0.0.0 |
|--------------------------------|-------------|----------------------------------------------------------|
| | Scale | The attribute has been classified as being a Scale |
| | Sequence | The attribute has been classified as being a Sequence |
| | Set | The attribute has been classified as being a Set |
| | Size | The attribute has been classified as being a Size |
| | Status | The attribute has been classified as being a Status |
| | Summary | The attribute has been classified as being a Summary |
| | Syntax | The attribute has been classified as being a Syntax |
| | Temperature | The attribute has been classified as being a Temperature |
| | Text | The attribute has been classified as being a Text |
| | Title | The attribute has been classified as being a Title |
| | Type | The attribute has been classified as being a Type |
| | Unit | The attribute has been classified as being a Unit |
| | Unknown | The attribute has an Unknown classification |
| | Value | The attribute has been classified as being a Value |
| | Vector | The attribute has been classified as being a Vector |

author_list in Citation_Information

| Name: author_list | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------|
| <i>Description:</i> The author_list attribute contains a semi-colon-separated list of names of people to be cited as authors of the associated product. The general format for individual names is: SUR-NAME, GIVEN NAME(s). Initials may be used in lieu of given name(s). If the name contains a suffix ("Jr.", "Sr.", "III", etc.) it should be placed before the comma (,). Do not include the word "and" before the final author. All authors should be listed explicitly - do not elide the list using "et al.". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Citation_Information | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> List | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | | |

author_list in Document

| Name: author_list | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The author_list attribute contains a semi-colon-separated list of names of people to be cited as authors of the associated product. The general format for individual names is: SUR-NAME, GIVEN NAME(s). Initials may be used in lieu of given name(s). If the name contains a | | |

| Name: author_list | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------|
| suffix ("Jr.", "Sr.", "III", etc.) it should be placed before the comma (,). Do not include the word "and" before the final author. All authors should be listed explicitly - do not elide the list using "et al.". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> List | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

author_list in Software

| Name: author_list | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------|
| <i>Description:</i> The author_list attribute contains a semi-colon-separated list of names of people to be cited as authors of the associated product. The general format for individual names is: SUR-NAME, GIVEN NAME(s). Initials may be used in lieu of given name(s). If the name contains a suffix ("Jr.", "Sr.", "III", etc.) it should be placed before the comma (,). Do not include the word "and" before the final author. All authors should be listed explicitly - do not elide the list using "et al.". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> List | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

axes in Array

| Name: axes | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The axes attribute provides a count of the axes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Array | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

axes in Array_1D *Deprecated*

| Name: axes | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The axes attribute provides a count of the axes. | | | |

| Name: axes | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------|----------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Array_1D *Deprecated* | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Array_1D has 1 axis | |

axes in Array_2D

| Name: axes | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The axes attribute provides a count of the axes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Array_2D | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 2 | Array_2D has 2 axes | |

axes in Array_3D

| Name: axes | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The axes attribute provides a count of the axes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Array_3D | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 3 | Array_3D has 3 axes | |

axis_index_order in Array

| Name: axis_index_order | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|-------------------------------------------|
| <i>Description:</i> The axis_index_order attribute provides the axis index that varies fastest with respect to storage order. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Array | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: axis_index_order | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Order | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Last Index Fastest | The values of a multi-dimensional array are stored in an order such that the last index changes fastest and the first index slowest. | |

axis_name in Axis_Array

| Name: axis_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The axis_name attribute provides a word or combination of words by which the axis is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Axis_Array | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

band_number in Band_Bin *Deprecated*

| Name: band_number | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------|----------------------------------------|
| <i>Description:</i> The band_number attribute provides a number corresponding to the band in the spectral cube. The band number is equivalent to the instrument band number. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 512 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

band_width in Band_Bin *Deprecated*

| Name: band_width | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------|---------------------------------|
| <i>Description:</i> The band_width attribute provides the width, at half height, of the band. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 1.7976931348623157e308 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |

| Name: band_width | | | Version Id: 1.0.0.0 |
|----------------------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> Units_of_Length | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

bit_fields in Packed_Data_Fields

| Name: bit_fields | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------|
| <i>Description:</i> The bit_fields attribute provides the number of defined bit fields (Field_Bit definitions) within the Packed_Data_Field. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Packed_Data_Fields | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

bit_mask in Object_Statistics *Deprecated*

| Name: bit_mask *Deprecated* | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| <i>Description:</i> The bit mask attribute is a series of ASCII binary digits identifying the active bits in a value; it has exactly the same number of bits as the array element to which it is applied. The bit mask must be specified from most significant to least significant bit (left to right). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics | <i>Type:</i> ASCII_Numeric_Base2 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Mask | <i>Conceptual Domain:</i> Numeric |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> [0-1]{1,255} | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

bit_string in Digital_Object

| Name: bit_string | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The bit string attribute is a sequence of digital bits. It is the content of a digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Digital_Object | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

bundle_type in Bundle

| Name: bundle_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The bundle_type attribute provides a classification for the bundle. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Bundle | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Archive | The Bundle contains at least one data collection | |
| | Supplemental | The Bundle does not contain a data collection | |

category in Service

| Name: category | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The category attribute identifies the type of function that the tool or service performs. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Analysis | The tool or service provides functionality for analyzing data. | |
| | Design | The tool or service provides functionality for designing product labels. | |
| | Dissemination | The tool or service provides functionality for downloading products. | |
| | Generation | The tool or service provides functionality for generating product labels. | |
| | Planning | The tool or service provides functionality for planning data deliveries. | |
| | Reader | The tool or service provides functionality for reading product labels and/or data files. | |
| | Search | The tool or service provides functionality for searching for and retrieving information about data. | |
| | Transformation | The tool or service provides functionality for transforming product labels and data into alternative formats. | |
| | Validation | The tool or service provides functionality for validating product labels and data files. | |

| Name: category | | Version Id: 1.0.0.0 |
|-----------------------|---------------|------------------------------------------------------------------|
| | Visualization | The tool or service provides functionality for visualizing data. |

center_wavelength in Band_Bin *Deprecated*

| Name: center_wavelength | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------|
| <i>Description:</i> The center_wavelength attribute provides the wavelength or frequency describing the center of a bin along the band axis of a spectral cube. When describing data from a spectrometer, the value corresponds to the peak of the response function for a particular detector and/or grating position. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 1.7976931348623157e308 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Length | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

character_constraint in ASCII_AnyURI

| Name: character_constraint | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_AnyURI | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_AnyURI must be ASCII. | |

character_constraint in ASCII_BibCode

| Name: character_constraint | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_BibCode | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| | | |
|-----------------------------------|-------|----------------------------------------|
| Name: character_constraint | | Version Id: 1.0.0.0 |
| | ASCII | Values of ASCII_BibCode must be ASCII. |

character_constraint in ASCII_DOI

| | | | |
|---------------------------------------------------------------------------------------|-----------------------|-----------------------------------|------------------------------------|
| Name: character_constraint | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_DOI | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII | Values of ASCII_DOI must be ASCII | |

character_constraint in ASCII_Date *Deprecated*

| | | | |
|---------------------------------------------------------------------------------------|-----------------------|-------------------------------------|------------------------------------|
| Name: character_constraint | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII | Values of ASCII_Date must be ASCII | |

character_constraint in ASCII_Date_DOY

| | | | |
|---------------------------------------------------------------------------------------|-----------------------|----------------------------------------|------------------------------------|
| Name: character_constraint | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_DOY | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII | Values of ASCII_Date_DOY must be ASCII | |

character_constraint in ASCII_Date_Time

Deprecated

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_Time must be ASCII | |

character_constraint in ASCII_Date_Time_DOY

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_Time_DOY must be ASCII | |

character_constraint in ASCII_Date_Time_DOY_UTC

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY_UTC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------|-------------------------------------------------|----------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_Time_DOU_UTC must be ASCII | |

character_constraint in ASCII_Date_Time_UTC *Deprecated*

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_UTC *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_Time_UTC must be ASCII | |

character_constraint in ASCII_Date_Time_YMD

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_Time_YMD must be ASCII | |

character_constraint in ASCII_Date_Time_YMD_UTC

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_YMD_UTC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_Time_YMD_UTC must be ASCII | |

character_constraint in ASCII_Date_YMD

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Date_YMD must be ASCII | |

character_constraint in ASCII_Directory_Path_Name

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Directory_Path_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Directory_Path_Name must be ASCII | |

character_constraint in ASCII_File_Name

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_File_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_File_Name must be ASCII | |

character_constraint in ASCII_File_Specification_Name

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_File_Specification_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_File_Specification_Name must be ASCII | |

character_constraint in ASCII_Integer

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Integer | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

character_constraint in ASCII_LID

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_LID must be ASCII | |

character_constraint in ASCII_LIDVID

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_LIDVID must be ASCII | |

character_constraint in ASCII_LIDVID_LID

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_LIDVID_LID must be ASCII | |

character_constraint in ASCII_Local_Identifier

| Name: character_constraint | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Local_Identifier Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | ASCII | Values of ASCII_Local_Identifier must be ASCII |

character_constraint in ASCII_Local_Identifier_Reference

| Name: character_constraint | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Local_Identifier_Reference Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | ASCII | Values of ASCII_Local_Identifier_Reference must be ASCII |

character_constraint in ASCII_MD5_Checksum

| Name: character_constraint | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_MD5_Checksum Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None |

| Name: character_constraint | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------|--------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | ASCII | Values of ASCII_MD5_Checksum must be ASCII |

character_constraint in ASCII_NonNegative_Integer

| Name: character_constraint | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

character_constraint in ASCII_Numeric_Base16

| Name: character_constraint | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base16 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

character_constraint in ASCII_Numeric_Base2

| Name: character_constraint | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base2 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------|---------------------------------------------|----------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Numeric_Base2 must be ASCII | |

character_constraint in ASCII_Numeric_Base8

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base8 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Numeric_Base8 must be ASCII | |

character_constraint in ASCII_Real

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Real | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

character_constraint in ASCII_Short_String_Collapsed

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------|------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII | Values of ASCII_Short_String_Collapsed must be ASCII | |

character_constraint in ASCII_Short_String_Preserved

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------|------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Short_String_Preserved | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII | Values of ASCII_Short_String_Preserved must be ASCII | |

character_constraint in ASCII_String

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|-----------------------|--------------------------------------|------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_String | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII | Values of ASCII_String must be ASCII | |

character_constraint in ASCII_Text_Collapsed

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|---------------------|----------------------------------|------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Text_Collapsed | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|----------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Text_Collapsed must be ASCII | |

character_constraint in ASCII_Text_Preserved

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Text_Preserved must be ASCII | |

character_constraint in ASCII_Time

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_Time must be ASCII | |

character_constraint in ASCII_VID

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|----------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII | Values of ASCII_VID must be ASCII | |

character_constraint in Character_Data_Type

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

character_constraint in UTF8_Short_String_Collapsed

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

character_constraint in UTF8_Short_String_Preserved

| Name: character_constraint | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |

| | | | |
|-----------------------------------|-----------------|---------------|----------------------------|
| Name: character_constraint | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

character_constraint in UTF8_Text_Preserved

| | | | |
|---------------------------------------------------------------------------------------|-----------------------|---------------------------------|------------------------------------|
| Name: character_constraint | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The character_constraint attribute limits the characters allowed. | | | |
| Namespace Id: pds | Steward: pds | Class Name: UTF8_Text_Preserved | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

character_encoding in ASCII_AnyURI

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|------------------------------------|
| Name: character_encoding | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The character_encoding attribute identifies the standard that maps a set of allowed characters to their machine readable code. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_AnyURI | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | UTF-8 | Values of ASCII_AnyURI have UTF-8 character encoding. | |

character_encoding in Character_Data_Type

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|------------------------------------|
| Name: character_encoding | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The character_encoding attribute identifies the standard that maps a set of allowed characters to their machine readable code. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Character_Data_Type | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |

| | | |
|---------------------------------|-------|-------------------------------------------------------------|
| Name: character_encoding | | Version Id: 1.0.0.0 |
| | UTF-8 | Values of Character_Data_Type have UTF-8 character encoding |

checksum_manifest_checksum in Information_Package_Component

| | | | |
|----------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------|---------------------------------|
| Name: checksum_manifest_checksum | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The checksum manifest checksum provides the checksum for the checksum manifest file. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Information_Package_Component | Type: ASCII_MD5_Checksum |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 32 | Maximum Characters: 32 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Checksum | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: [0-9a-fA-F]{32} | |
| Permissible Value(s) | No Values | | |

checksum_type in Information_Package_Component

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------|------------------------------------|
| Name: checksum_type | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The checksum type attribute provides the name of the checksum algorithm used to calculate the checksum value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Information_Package_Component | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

checksum_type in Information_Package_Component_Deep_Archive

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------|------------------------------------|
| Name: checksum_type | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The checksum type attribute provides the name of the checksum algorithm used to calculate the checksum value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Information_Package_Component_Deep_Archive | Type: ASCII_Short_String_Collapsed |

| Name: checksum_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | MD5Deep 4.n | The information package is governed by the Message-Digest Algorithm (MD5) output of the MD5 Deep Package Version 4.n (see http://md5deep.sourceforge.net/). | |

citation_text in Data_Set_PDS3

| Name: citation_text | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------|
| <i>Description:</i> The citation_text attribute provides a character string containing a literature or other citation in sufficient detail that the material could be located in PDS or elsewhere. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

class_name in DD_Attribute_Full

| Name: class_name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The class_name attribute provides the common name by which the class is identified, as well as the class within which the attribute is used. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

collection_type in Collection

| Name: collection_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|---------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The collection_type attribute provides a classification for the collection. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Collection | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: collection_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Browse | This is a BROWSE collection | |
| | Calibration | This is a CALIBRATION collection | |
| | Context | This is a CONTEXT collection | |
| | Data | This is a DATA collection | |
| | Document | This is a DOCUMENT collection | |
| | Geometry | This is a GEOMETRY collection | |
| | Miscellaneous | This is a MISCELLANEOUS collection | |
| | SPICE Kernel | This is a SPICE Kernel collection | |
| | XML Schema | This is an XML SCHEMA collection | |

comment in Alias

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Alias | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Context_Area

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Context_Area | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in DD_Attribute

| Name: comment | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

comment in DD_Attribute_Full

| Name: comment | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

comment in DD_Class_Full

| Name: comment | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

comment in File

| Name: comment | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |

| Name: comment | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> File | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Ingest_LDD

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Ingest_LDD | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Internal_Reference

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute provides one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Internal_Reference | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Local_ID_Reference

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: comment | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Local_ID_Relation

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Relation | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Local_Internal_Reference

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-----------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_Internal_Reference | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

comment in Source_Product_Internal

| Name: comment | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The comment attribute is a character string expressing one or more remarks or thoughts relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Source_Product_Internal | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

compile_note in Software_Source

| <i>Name:</i> compile_note | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|
| <i>Description:</i> The compile note attribute provides a brief statement giving particulars about the compilation of the software source. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

conceptual_domain in DD_Value_Domain_Full

| <i>Name:</i> conceptual_domain | | <i>Version Id:</i> 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| <i>Description:</i> The conceptual_domain attribute provides the domain to which the value has been assigned. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Boolean | The value is classified as Boolean |
| | Integer | The value is classified as Integer |
| | Name | The value is classified as Name |
| | Numeric | The value is classified as Numeric |
| | Real | The value is classified as Real |
| | Short_String | The value is classified as Short_String |
| | Text | The value is classified as Text |
| | Time | The value is classified as Time |
| | Type | The value is classified as Type |
| | Unknown | The value has an Unknown classification |

confidence_level_note in Data_Set_PDS3

| <i>Name:</i> confidence_level_note | | <i>Version Id:</i> 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The confidence_level_note attribute is a text field which characterizes the reliability of data within a data set or the reliability of a particular programming algorithm or software com- | | |

| Name: confidence_level_note | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------|
| ponent. Essentially, this note discusses the level of confidence in the accuracy of the data or in the ability of the software to produce accurate results. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

constant_value in DD_Association

| Name: constant_value | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The constant value attribute provides the value to be used if an attribute is static. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

container_type in Zip

| Name: container_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The container type attribute indicates the method used to package the components. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Zip | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | |
| | GZIP | Product_Zipped is in container type GZIP, a compressed file format based on the DEFLATE algorithm. See http://www.gzip.org/ | |
| | LZIP | Product_Zipped is in container type LZIP, a compressed file format that is created using the Lempel-Ziv-Markov chain algorithm. See http://lzip.nongnu.org/lzip.html | |
| | TAR | Product_Zipped is in container type TAR, a file format that aggregates many small files, their ownership and status information, and their relative organization into a single larg- | |

| Name: container_type | | Version Id: 1.0.0.0 |
|-----------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | er file. See http://www.freebsd.org/cgi/man.cgi?query=tar&sektion=5&manpath=Free-BSD+8-current |
| | ZIP | Product_Zipped is in container type ZIP, a file format that aggregates one or more smaller files and/or folders, some of which may have been compressed, into a single file. See http://www.pkware.com/support/zip-app-note/ |

coordinate_source in Telescope

| Name: coordinate_source | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The coordinate_source attribute provides the reference figure or datum. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

copyright in Document

| Name: copyright | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------------------------------|
| <i>Description:</i> The copyright attribute is a character string giving information about the exclusive right to make copies, license, and otherwise exploit an object, whether physical or digital. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

country in Facility

| Name: country | | Version Id: 1.0.0.0 | |
|-----------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> country | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Facility | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Short_String |

| | | | |
|----------------------|-----------------|---------------|----------------------------|
| Name: country | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

creation_date_time in File

| | | | |
|------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|----------------------------|
| Name: creation_date_time | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The creation_date_time attribute provides a date and time when the object was created. | | | |
| Namespace Id: pds | Steward: pds | Class Name: File | Type: ASCII_Date_Time_YMD |
| Minimum Value: None | Maximum Value: None | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Time | Conceptual Domain: Time |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

curating_facility in Source_Product_External

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|------------------------------------|
| Name: curating_facility | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The curating_facility attribute provides a unique name or identifier for the curating facility maintaining the source product. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Source_Product_External | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

curating_node_id in Volume_PDS3

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|------------------------------------|
| Name: curating_node_id | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The curating_node_id attribute provides the id of the node currently maintaining the data set or volume and is responsible for maintaining catalog information. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Volume_PDS3 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

data_regime in Primary_Result_Summary

Deprecated

| <i>Name: data_regime *Deprecated*</i> | | | <i>Version Id: 1.0.0.0</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The data_regime attribute provides the wavelength (or an analogous concept for things like particle detectors) of the observations, stated as a category. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Primary_Result_Summary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Dust | Particles ranging in size from a few molecules to approximately 0.1 micrometer in diameter. | |
| | Electric Field | A vector force field controlled primarily by the presence of electrons and/or ions | |
| | Electrons | Subatomic particles with negative elementary charge. | |
| | Far Infrared | Electromagnetic radiation in the approximate range: 1 THz - 10 THz (frequency), 30 micrometers - 300 micrometers (wavelength), or 4 meV - 40 meV (photon energy) | |
| | Gamma Ray | Electromagnetic radiation in the approximate range: greater than 10 EHHz (frequency), less than 0.01 nm (wavelength), or more than 100 keV (photon energy) | |
| | Infrared | Electromagnetic radiation in the approximate range: 300 GHz - 405 THz (frequency), 750 nm - 1 mm (wavelength), or 1.24 meV - 1.7 eV (photon energy) | |
| | Ions | Atoms or molecules in which the number of electrons and protons is unequal, giving them a net negative or positive electric charge. | |
| | Magnetic Field | A vector force field produced by moving electric charges (currents) and/or the intrinsic magnetic properties of materials | |
| | Microwave | Electromagnetic radiation in the approximate range: 300 MHz - 300 GHz (frequency), 1 mm - 1 m (wavelength), or 12 micro eV - 1.2 meV (photon energy) | |
| | Millimeter | Electromagnetic radiation in the approximate range: 30 GHz - 300 GHz (frequency), 1 mm - 10 mm (wavelength), or 120 micro eV - 1.2 meV (photon energy) | |
| | Near Infrared | Electromagnetic radiation in the approximate range: 300 THz - 1.5 PHz (frequency), 1 mi- | |

| Name: data_regime *Deprecated* | | Version Id: 1.0.0.0 |
|---------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | | crometer - 5 micrometer (wavelength), or 1 eV - 6 eV (photon energy) |
| | Particles | Discrete (but small) objects that can be characterized by a few simple physical properties such as volume and mass. |
| | Pressure | Measurement of ambient atmospheric pressure. |
| | Radio | Electromagnetic radiation in the approximate range: 3 Hz - 300 GHz (frequency), 1 mm - 100,000 km (wavelength), or 12 feV - 1.2 meV (photon energy) |
| | Sub-Millimeter | Electromagnetic radiation in the approximate range: 0.3 THz - 3 THz (frequency), 0.1 mm - 1 mm (wavelength), or 1.2 meV - 12 meV (photon energy) |
| | Temperature | Measurement of ambient temperature. |
| | Ultraviolet | Electromagnetic radiation in the approximate range: 790 THz - 30 PHz (frequency), 10 nm - 390 nm (wavelength), or 3 eV - 120 eV (photon energy) |
| | Visible | Electromagnetic radiation in the approximate range: 405 THz - 790 THz (frequency), 390 nm - 750 nm (wavelength), or 1.7 eV - 3.3 eV (photon energy) |
| | X-Ray | Electromagnetic radiation in the approximate range: 30 PHz - 30 EHz (frequency), 0.01 nm - 10 nm (wavelength), or 120 eV - 120 keV (photon energy)) |

data_set_desc in Data_Set_PDS3

| Name: data_set_desc | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|
| <i>Description:</i> The data_set_desc attribute describes the content and type of a data set and provides information required to use the data (such as binning information). | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | | |

data_set_id in Data_Set_PDS3

| Name: data_set_id | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------|---------------------|-------------------------------------------|
| <i>Description:</i> The data set id provides a formal name used to refer to a data set. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 |
| | | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: data_set_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

data_set_name in Data_Set_PDS3

| Name: data_set_name | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The data_set_name attribute provides the full name given to a data set or a data product. The data_set_name typically identifies the instrument that acquired the data of that instrument Example value data_set_id. Note This attribute is defined in the AMMOS Magellan catalog as an alias for file_name to provide backward compatibility | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

data_set_release_date in Data_Set_PDS3

| Name: data_set_release_date | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The data_set_release_date attribute provides the date when a data set is released by the data producer for archive or publication. In many systems this represents the end of a proprietary or validation period. Formation rule In AMMOS identify the date at which a product may be released to the general public from proprietary access. AMMOS-related systems should apply this attribute only to proprietary data. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

data_set_terse_desc in Data_Set_PDS3

| Name: data_set_terse_desc | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------|---------------------|----------------------------------|-----------------------------------|
| <i>Description:</i> A one line description of the data set | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Text_Preserved |

| Name: data_set_terse_desc | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|---------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

data_type in Element_Array

| Name: data_type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Element_Array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Element_Array | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | ComplexLSB16 | Values of Element_Array are stored as two 64-bit floating point numbers with the least significant byte first | |
| | ComplexLSB8 | Values of Element_Array are stored as two 32-bit floating point numbers with the least significant byte first | |
| | ComplexMSB16 | Values of Element_Array are stored as two 64-bit floating point numbers with the more significant byte first | |
| | ComplexMSB8 | Values of Element_Array are stored as two 32-bit floating point numbers with the more significant byte first | |
| | IEEE754LSBDouble | Values of Element_Array are stored as 64-bit IEEE binary floating point numbers with the least significant byte first | |
| | IEEE754LSBSingle | Values of Element_Array are stored as 32-bit IEEE binary floating point numbers with the least significant byte first | |
| | IEEE754MSBDouble | Values of Element_Array are stored as 64-bit IEEE binary floating point numbers with the most significant byte first | |
| | IEEE754MSBSingle | Values of Element_Array are stored as 32-bit IEEE binary floating point numbers with the most significant byte first | |
| | SignedBitString | Values of Element_Array are stored as signed bit strings | |
| | SignedByte | Values of Element_Array are stored as 8-bit signed binary integers | |

| Name: data_type | | Version Id: 1.0.0.0 |
|------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------|
| | SignedLSB2 | Values of Element_Array are stored as 16-bit signed binary integers with the less significant byte first |
| | SignedLSB4 | Values of Element_Array are stored as 32-bit signed binary integers with the less significant byte first |
| | SignedLSB8 | Values of Element_Array are stored as 64-bit signed binary integers with the less significant byte first |
| | SignedMSB2 | Values of Element_Array are stored as 16-bit signed binary integers with the more significant byte first |
| | SignedMSB4 | Values of Element_Array are stored as two's-complement 32-bit binary integers with the most significant byte first |
| | SignedMSB8 | Values of Element_Array are stored as two's-complement 64-bit binary integers with the most significant byte first |
| | UnsignedBitString | Values of Element_Array are stored as unsigned bit strings |
| | UnsignedByte | Values of Element_Array are stored as 8-bit unsigned binary integers |
| | UnsignedLSB2 | Values of Element_Array are stored as 16-bit unsigned binary integers with the less significant byte first |
| | UnsignedLSB4 | Values of Element_Array are stored as 32-bit unsigned binary integers with the least significant byte first |
| | UnsignedLSB8 | Values of Element_Array are stored as 64-bit unsigned binary integers with the least significant byte first |
| | UnsignedMSB2 | Values of Element_Array are stored as 16-bit unsigned binary integers with the more significant byte first |
| | UnsignedMSB4 | Values of Element_Array are stored as 32-bit unsigned binary integers with the most significant byte first |
| | UnsignedMSB8 | Values of Element_Array are stored as 64-bit unsigned binary integers with the most significant byte first |

data_type in Field_Binary

| Name: data_type | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Field_Binary (see PDS Standards Reference section "Binary Data Types"). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Binary | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: data_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|-------------------------------|---------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII_AnyURI | Values in Field_Binary have data type ASCII_AnyURI | |
| | ASCII_BibCode | Values in Field_Binary have data type ASCII_BibCode | |
| | ASCII_Boolean | Values in Field_Binary have data type ASCII_Boolean | |
| | ASCII_DOI | Values in Field_Binary have data type ASCII_DOI | |
| | ASCII_Date_DOY | Values in Field_Binary have data type ASCII_Date_DOY | |
| | ASCII_Date_Time_DOY | Values in Field_Binary have data type ASCII_Date_Time_DOY | |
| | ASCII_Date_Time_DOY_UTC | Values in Field_Binary have data type ASCII_Date_Time_DOY_UTC | |
| | ASCII_Date_Time_YMD | Values in Field_Binary have data type ASCII_Date_Time_YMD | |
| | ASCII_Date_Time_YMD_UTC | Values in Field_Binary have data type ASCII_Date_Time_YMD_UTC | |
| | ASCII_Date_YMD | Values in Field_Binary have data type ASCII_Date_YMD | |
| | ASCII_Directory_Path_Name | Values in Field_Binary have data type ASCII_Directory_Path_Name | |
| | ASCII_File_Name | Values in Field_Binary have data type ASCII_File_Name | |
| | ASCII_File_Specification_Name | Values in Field_Binary have data type ASCII_File_Specification_Name | |
| | ASCII_Integer | Values in Table_Binary_Field have data type ASCII_Integer | |
| | ASCII_LID | Values in Field_Binary have data type ASCII_LID | |
| | ASCII_LIDVID | Values in Field_Binary have data type ASCII_LIDVID | |
| | ASCII_LIDVID_LID | Values in Field_Binary have data type ASCII_LIDVID_LID | |
| | ASCII_MD5_Checksum | Values in Field_Binary have data type ASCII_MD5_Checksum | |
| | ASCII_NonNegative_Integer | Values in Field_Binary have data type ASCII_NonNegative_Integer | |
| | ASCII_Numeric_Base16 | Values in Field_Binary have data type ASCII_Numeric_Base16 | |

| Name: data_type | | Version Id: 1.0.0.0 |
|------------------------|---------------------|-----------------------------------------------------------|
| | ASCII_Numeric_Base2 | Values in Field_Binary have data type ASCII_Numeric_Base2 |
| | ASCII_Numeric_Base8 | Values in Field_Binary have data type ASCII_Numeric_Base8 |
| | ASCII_Real | Values in Field_Binary have data type ASCII_Real |
| | ASCII_String | Values in Field_Binary have data type ASCII_String |
| | ASCII_Time | Values in Field_Binary have data type ASCII_Time |
| | ASCII_VID | Values in Field_Binary have data type ASCII_VID |
| | ComplexLSB16 | Values in Field_Binary have data type ComplexLSB16 |
| | ComplexLSB8 | Values in Field_Binary have data type ComplexLSB8 |
| | ComplexMSB16 | Values in Field_Binary have data type ComplexMSB16 |
| | ComplexMSB8 | Values in Field_Binary have data type ComplexMSB8 |
| | IEEE754LSBDouble | Values in Field_Binary have data type IEEE754LSBDouble |
| | IEEE754LSBSingle | Values in Field_Binary have data type IEEE754LSBSingle |
| | IEEE754MSBDouble | Values in Field_Binary have data type IEEE754MSBDouble |
| | IEEE754MSBSingle | Values in Field_Binary have data type IEEE754MSBSingle |
| | SignedBitString | Values in Field_Binary have data type SignedBitString |
| | SignedByte | Values in Field_Binary have data type SignedByte |
| | SignedLSB2 | Values in Field_Binary have data type SignedLSB2 |
| | SignedLSB4 | Values in Field_Binary have data type SignedLSB4 |
| | SignedLSB8 | Values in Field_Binary have data type SignedLSB8 |
| | SignedMSB2 | Values in Field_Binary have data type SignedMSB2 |
| | SignedMSB4 | Values in Field_Binary have data type SignedMSB4 |
| | SignedMSB8 | Values in Field_Binary have data type SignedMSB8 |
| | UTF8_String | Values in Field_Binary have data type UTF8_String |

| Name: data_type | | Version Id: 1.0.0.0 |
|------------------------|-------------------|---------------------------------------------------------|
| | UnsignedBitString | Values in Field_Binary have data type UnsignedBitString |
| | UnsignedByte | Values in Field_Binary have data type UnsignedByte |
| | UnsignedLSB2 | Values in Field_Binary have data type UnsignedLSB2 |
| | UnsignedLSB4 | Values in Field_Binary have data type UnsignedLSB4 |
| | UnsignedLSB8 | Values in Field_Binary have data type UnsignedLSB8 |
| | UnsignedMSB2 | Values in Field_Binary have data type UnsignedMSB2 |
| | UnsignedMSB4 | Values in Field_Binary have data type UnsignedMSB4 |
| | UnsignedMSB8 | Values in Field_Binary have data type UnsignedMSB8 |

data_type in Field_Bit

| Name: data_type | Version Id: 1.0.0.0 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Field_Bit (see PDS Standards Reference section "Binary Data Types"). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | SignedBitString | Values of Field_Bit are stored as signed bit strings | |
| | UnsignedBitString | Values of Field_Bit are stored as unsigned bit strings | |

data_type in Field_Character

| Name: data_type | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Field_Character (see PDS Standards Reference section "Character Data Types"). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: data_type | | Version Id: 1.0.0.0 |
|-----------------------------|-------------------------------|------------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | ASCII_AnyURI | Values in Field_Character have data type ASCII_AnyURI |
| | ASCII_BibCode | Values in Field_Character have data type ASCII_BibCode |
| | ASCII_Boolean | Values in Field_Character have data type ASCII_Boolean |
| | ASCII_DOI | Values in Field_Character have data type ASCII_DOI |
| | ASCII_Date_DOY | Values in Field_Character have data type ASCII_Date_DOY |
| | ASCII_Date_Time_DOY | Values in Field_Character have data type ASCII_Date_Time_DOY |
| | ASCII_Date_Time_DOY_UTC | Values in Field_Character have data type ASCII_Date_Time_DOY_UTC |
| | ASCII_Date_Time_YMD | Values in Field_Character have data type ASCII_Date_Time_YMD |
| | ASCII_Date_Time_YMD_UTC | Values in Field_Character have data type ASCII_Date_Time_YMD_UTC |
| | ASCII_Date_YMD | Values in Field_Character have data type ASCII_Date_YMD |
| | ASCII_Directory_Path_Name | Values in Field_Character have data type ASCII_Directory_Path_Name |
| | ASCII_File_Name | Values in Field_Character have data type ASCII_File_Name |
| | ASCII_File_Specification_Name | Values in Field_Character have data type ASCII_File_Specification_Name |
| | ASCII_Integer | Values in Field_Character have data type ASCII_Integer |
| | ASCII_LID | Values in Field_Character have data type ASCII_LID |
| | ASCII_LIDVID | Values in Field_Character have data type ASCII_LIDVID |
| | ASCII_LIDVID_LID | Values in Field_Character have data type ASCII_LIDVID_LID |
| | ASCII_MD5_Checksum | Values in Field_Character have data type ASCII_MD5_Checksum |
| | ASCII_NonNegative_Integer | Values in Field_Character have data type ASCII_NonNegative_Integer |
| | ASCII_Numeric_Base16 | Values in Field_Character have data type ASCII_Numeric_Base16 |
| | ASCII_Numeric_Base2 | Values in Field_Character have data type ASCII_Numeric_Base2 |
| | ASCII_Numeric_Base8 | Values in Field_Character have data type ASCII_Numeric_Base8 |
| | ASCII_Real | Values in Field_Character have data type ASCII_Real |

| Name: data_type | | Version Id: 1.0.0.0 |
|------------------------|--------------|-------------------------------------------------------|
| | ASCII_String | Values in Field_Character have data type ASCII_String |
| | ASCII_Time | Values in Field_Character have data type ASCII_Time |
| | ASCII_VID | Values in Field_Character have data type ASCII_VID |
| | UTF8_String | Values in Field_Character have data type UTF8_String |

data_type in Field_Delimited

| Name: data_type | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Field_Delimited (see PDS Standards Reference section "Character Data Types"). | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | ASCII_AnyURI | The delimited field has data type ASCII_AnyURI |
| | ASCII_BibCode | Values in Field_Delimited have data type ASCII_BibCode |
| | ASCII_Boolean | Values in Field_Delimited have data type ASCII_Boolean |
| | ASCII_DOI | The delimited field has data type ASCII_DOI |
| | ASCII_Date_DOY | The delimited field has data type ASCII_Date_DOY |
| | ASCII_Date_Time_DOY | The delimited field has data type ASCII_Date_Time_DOY |
| | ASCII_Date_Time_DOY_UTC | Values in Field_Delimited have data type ASCII_Date_Time_DOY_UTC |
| | ASCII_Date_Time_YMD | The delimited field has data type ASCII_Date_Time_YMD |
| | ASCII_Date_Time_YMD_UTC | Values in Field_Delimited have data type ASCII_Date_Time_YMD_UTC |
| | ASCII_Date_YMD | The delimited field has data type ASCII_Date_YMD |
| | ASCII_Directory_Path_Name | Values in Field_Delimited have data type ASCII_Directory_Path_Name |
| | ASCII_File_Name | The delimited field has data type ASCII_File_Name |
| | ASCII_File_Specification_Name | The delimited field has data type ASCII_File_Specification_Name |

| Name: data_type | | Version Id: 1.0.0.0 |
|------------------------|---------------------------|--------------------------------------------------------------|
| | ASCII_Integer | The delimited field has data type ASCII_Integer |
| | ASCII_LID | The delimited field has data type ASCII_LID |
| | ASCII_LIDVID | The delimited field has data type ASCII_LIDVID |
| | ASCII_LIDVID_LID | Values in Field_Delimited have data type ASCII_LIDVID_LID |
| | ASCII_MD5_Checksum | The delimited field has data type ASCII_MD5_Checksum |
| | ASCII_NonNegative_Integer | The delimited field has data type ASCII_NonNegative_Integer |
| | ASCII_Numeric_Base16 | The delimited field has data type ASCII_Numeric_Base16 |
| | ASCII_Numeric_Base2 | The delimited field has data type ASCII_Numeric_Base2 |
| | ASCII_Numeric_Base8 | Values in Field_Delimited have data type ASCII_Numeric_Base8 |
| | ASCII_Real | The delimited field has data type ASCII_Real |
| | ASCII_String | Values in Field_Delimited have data type ASCII_String |
| | ASCII_Time | The delimited field has data type ASCII_Time |
| | ASCII_VID | The delimited field has data type ASCII_VID |
| | UTF8_String | Values in Field_Delimited have data type UTF8_String |

data_type in Quaternion_Component

| Name: data_type | Version Id: 1.0.0.0 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------|------------------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Quaternion_Component (see PDS Standards Reference section "Attribute Data Types"). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Quaternion_Component | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ASCII_Real | The value is expressed using the data type ASCII_Real | |

data_type in Vector

| Name: data_type | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <i>Description:</i> The data_type attribute provides the hardware representation used to store a value in Vector (see PDS Standards Reference section "Attribute Data Types"). | |

| Name: data_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII_Real | The value is expressed using the data type ASCII_Real | |

date_time in Update_Entry

| Name: date_time | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------|------------------------------|---------------------------------|----------------------------------|
| <i>Description:</i> The date_time attribute provides the date and time of an event. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Update_Entry | <i>Type:</i> ASCII_Date_Time_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

definition in DD_Attribute

| Name: definition | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The definition attribute provides a statement, picture in words, or account that defines the term. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

definition in DD_Attribute_Full

| Name: definition | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|----------------------------------|
| <i>Description:</i> The definition attribute provides a statement, picture in words, or account that defines the term. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> UTF8_Text_Preserved |

| Name: definition | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|---------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

definition in DD_Class

| Name: definition | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The definition attribute provides a statement, picture in words, or account that defines the term. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

definition in DD_Class_Full

| Name: definition | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The definition attribute provides a statement, picture in words, or account that defines the term. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

definition in Terminological_Entry

| Name: definition | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------|
| <i>Description:</i> The definition attribute provides a statement, picture in words, or account that defines the term. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Terminological_Entry | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |

| Name: definition | | | Version Id: 1.0.0.0 |
|-------------------------|-----------------|---------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Agency

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|----------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Agency | Type: UTF8_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Description | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Airborne *Deprecated*

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Airborne *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Array

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|----------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Array | Type: UTF8_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Description | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Bundle

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Bundle | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Citation_Information

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a short (5KB or less) description of the product as a whole. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Citation_Information | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Collection

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Collection | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Composite_Structure

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Composite_Structure | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Document

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Document_Edition

| Name: description | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes the edition, including how it is distinguished from other editions (if any). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document_Edition | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Encoded_Byte_Stream

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Byte_Stream | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in External_Reference

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> External_Reference | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Facility

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Facility | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Field_Binary

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Binary | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Field_Bit

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Field_Character

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Field_Delimited

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Field_Statistics

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Statistics | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Group

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Information_Package

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Information_Package | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Instrument

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Instrument_Host

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Investigation

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Modification_Detail

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Modification_Detail | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| | |
|--------------------------|----------------------------|
| Name: description | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values |

description in Node

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|---------------------------|
| Name: description | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Node | Type: UTF8_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Description | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Object_Statistics

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|---------------------------|
| Name: description | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Object_Statistics | Type: UTF8_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Description | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Observing_System

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|---------------------------|
| Name: description | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Observing_System | Type: UTF8_Text_Preserved |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Description | Conceptual Domain: Text |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

description in Observing_System_Component

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Observing_System_Component | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Other

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Other | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in PDS_Affiliate

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in PDS_Guest

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Guest | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Packed_Data_Fields

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Packed_Data_Fields | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Parsable_Byte_Stream

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Parsable_Byte_Stream | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

description in Primary_Result_Summary

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------|----------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Primary_Result_Summary | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Property_Map

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Property_Maps

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Maps | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Quaternion

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternion | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Quaternion_Component

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternion_Component | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Resource

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Resource | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Service

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Software

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Source_Product_External

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Source_Product_External | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Table_Base

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Base | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Target

| Name: description | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Target | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Target_Identification

| Name: description | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides additional information or clarification, as needed. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Target_Identification | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Telescope

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Terminological_Entry_SKOS

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Update *Deprecated*

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Update *Deprecated* | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Update_Entry

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Update_Entry | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Vector

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Vector_Component

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Component | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Volume_PDS3

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Volume_Set_PDS3

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_Set_PDS3 | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

description in Zip

| Name: description | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The description attribute provides a statement, picture in words, or account that describes or is otherwise relevant to the object. | | | |

| Name: description | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|----------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Zip | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

detector_number in Band_Bin *Deprecated*

| Name: detector_number | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------|----------------------------------------|
| <i>Description:</i> The detector_number attribute provides the spectrometer detector number corresponding to a band of a spectral cube. Detector numbers are usually assigned consecutively from 1, in order of increasing wavelength. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

directory_path_name in Document_File

| Name: directory_path_name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The directory_path_name attribute provides a sequence of names that locates a directory in a hierarchy of directories. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document_File | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

discipline_name in Discipline_Facets

| Name: discipline_name | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The discipline_name attribute describes the observing discipline (as opposed to a PDS Discipline Node Name, though the concepts and values are similar). Some of these values are, with respect to the PDS Nodes, inter-disciplinary and should be used when they are applicable in preference to the more restrictive values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Discipline_Facets | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: discipline_name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------------------------------------------|--------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Atmospheres | atmospheric observations | |
| | Fields | electric and magnetic field data | |
| | Flux Measurements | photometry/polarimetry not resulting in images or spectra | |
| | Geosciences | observations of the surface or interior of a planet or satellite | |
| | Imaging | any non-spectroscopic image, of any dimensionality (color, movies, etc.) | |
| | Particles | ions, electrons, and anything not classified as 'dust' | |
| | Radio Science | observations of propagating electromagnetic waves | |
| | Ring-Moon Systems | other ring or ring-moon system data | |
| | Small Bodies | other small body observations, including dust, shape models, etc. | |
| | Spectroscopy | light wavelength/wave number spectra of any and all dimensionalities | |

document_editions in Document

| Name: document_editions | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The document_editions attribute provides a count of the total number of complete, distinct editions of the document. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

document_name in Document

| Name: document_name | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------|----------------------------------|
| <i>Description:</i> The document_title attribute provides the full name of the published document. This optional attribute is used only if the title in the identification area of the document product is not sufficient. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> UTF8_Text_Preserved |

| Name: document_name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|---------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

document_standard_id in Document_File

| Name: document_standard_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The document_standard_id attribute provides the formal name of a standard used for the structure of a document file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document_File | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | 7-Bit ASCII Text | The Document_File contains simple text using only the 7-Bit ASCII character set. ANSI X3.4-1986. | |
| | Encapsulated Postscript | The Document_File is governed by the external standard Encapsulated Postscript (EPS). | |
| | GIF | The Document_File is governed by the standard Graphics Interchange Format (GIF). | |
| | HTML | The Document_File is governed by one of the HyperText Markup Language (HTML) standards such as IETF RFC 2070, W3C Recommendation 14-Jan-1997, ISO 8879:1986, or ISO/IEC 15445:2000. | |
| | HTML 2.0 - *Deprecated* | The Document_File is governed by the standard HyperText Markup Language (HTML), IETF RFC 2070. | |
| | HTML 3.2 - *Deprecated* | The Document_File is governed by the standard HyperText Markup Language (HTML), W3C Recommendation 14-Jan-1997. | |
| | HTML 4.0 - *Deprecated* | The Document_File is governed by the standard HyperText Markup Language (HTML), ISO 8879:1986. | |
| | HTML 4.01 - *Deprecated* | The Document_File is governed by the standard HyperText Markup Language (HTML), ISO/IEC 15445:2000. | |
| | JPEG | The Document_File is governed by the standard Joint Photographic Experts Group (JPEG), ISO/IEC 10918-1. | |

| Name: document_standard_id | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | LaTEX | The Document_File is governed by the standard LaTEX, Version LaTeX2e. |
| | MPEG-4 | The Document_File is governed by the standard Moving Picture Experts Group (MPEG), ISO/IEC 14496-14, 14496-10 and 14496-3 subject to the restrictions laid out in the Document Products section of the PDS4 Standards Reference. |
| | Microsoft Excel | The Document_File is governed by a Microsoft Excel standard (xls, xlsx), Microsoft Corporation. |
| | Microsoft Word | The Document_File is governed by a Microsoft Word standard, Microsoft Corporation. |
| | PDF | The Document_File is governed by the standard Portable Document Format (PDF), ISO 32000-1:2008. |
| | PDF/A | The Document_File is governed by the standard Portable Document Format / Archive (PDF/A), ISO 19005-1:2005. |
| | PNG | The Document_File is governed by the standard Portable Network Graphics (PNG), ISO/IEC 15948:2004. |
| | Postscript | The Document_File is governed by the standard Postscript (PS) |
| | Rich Text | The Document_File is governed by the standard Rich Text Format (RTF), Microsoft Corporation. |
| | TIFF | The Document_File is governed by the standard Tagged Image File Format (TIFF), Version 6.n, 1992. |
| | UTF-8 Text | The Document_File contains simple text using UTF-8 Unicode character encodings. RFC 3629. |

doi in Citation_Information

| Name: doi | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The doi attribute provides the Digital Object Identifier for an object, assigned by the appropriate DOI System Registration Agency. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Citation_Information | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | | |

doi in Document

| Name: doi | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The doi attribute provides the Digital Object Identifier for an object, assigned by the appropriate DOI System Registration Agency. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> DOI | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

doi in External_Reference

| Name: doi | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The doi attribute provides the Digital Object Identifier for an object, assigned by the appropriate DOI System Registration Agency. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> External_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> DOI | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

doi in Source_Product_External

| Name: doi | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The doi attribute provides the Digital Object Identifier for an object, assigned by the appropriate DOI System Registration Agency. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Source_Product_External | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

domain in Science_Facets

| <i>Name:</i> domain | | <i>Version Id:</i> 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The radial "zone" or "shell" of the target for which the observations were collected or which are represented in the product(s). The value may depend on wavelength_range and size of the target. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Science_Facets | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Atmosphere | an envelope of uncharged gases and particles surrounding the target and bound to it primarily by gravitational forces | |
| | Dynamics | The data provide information relating to the orbital motion of one or more bodies (e.g., astrometric observations). | |
| | Heliosheath | the portion of the solar atmosphere between the termination shock and heliopause, which is dominated by shocked, subsonic solar wind | |
| | Heliosphere | the solar atmosphere extending roughly from the outer corona to the edge of the solar plasma at the heliopause, which separates primarily solar plasma from the interstellar medium. | |
| | Interior | the solid and/or liquid portion of a target enclosed by its surface. | |
| | Interstellar | the region between stars, which is outside of any star's heliopause. | |
| | Ionosphere | an envelope of plasma and charged particles surrounding the target and bound to it primarily by gravitational forces. | |
| | Magnetosphere | an envelope of charged particles, bounded on the upper side by the magnetopause and which is primarily under the control of the target body's magnetic field. | |
| | Rings | A ring is a narrow band or disc orbiting an astronomical body (planet, dwarf planet, satellite, asteroid, etc.) that is composed of solid material ranging in size from fine dust to a few tens of kilometers. | |
| | Surface | the boundary between the solid/liquid portion of a target and its atmosphere, ionosphere, or magnetosphere (or space). | |

edition_name in Document_Edition

| Name: edition_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------------------|
| <i>Description:</i> The edition name attribute provides a name by which the edition is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document_Edition | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

editor_list in Citation_Information

| Name: editor_list | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------|
| <i>Description:</i> The editor_list attribute contains a semi-colon-separated list of names of people to be cited as editors of the associated product. The general format for individual names is: SUR-NAME, GIVEN NAME(s). Initials may be used in lieu of given name(s). If the name contains a suffix ("Jr.", "Sr.", "III", etc.) it should be placed before the comma (,). Do not include the word "and" before the final editor. All editors should be listed explicitly - do not elide the list using "et al.". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Citation_Information | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> List | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

editor_list in Document

| Name: editor_list | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------|
| <i>Description:</i> The editor_list attribute contains a semi-colon-separated list of names of people to be cited as editors of the associated product. The general format for individual names is: SUR-NAME, GIVEN NAME(s). Initials may be used in lieu of given name(s). If the name contains a suffix ("Jr.", "Sr.", "III", etc.) it should be placed before the comma (,). Do not include the word "and" before the final editor. All editors should be listed explicitly - do not elide the list using "et al.". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> List | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

electronic_mail_address in PDS_Affiliate

| <i>Name:</i> electronic_mail_address | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|
| <i>Description:</i> The electronic mail address attribute provides a multi-part email address: the first part (the user name), which identifies a unique user, is separated by an "at sign" from the host name, which uniquely identifies the mail server. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Address |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

electronic_mail_address in PDS_Guest

| <i>Name:</i> electronic_mail_address | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|
| <i>Description:</i> The electronic mail address attribute provides a multi-part email address: the first part (the user name), which identifies a unique user, is separated by an "at sign" from the host name, which uniquely identifies the mail server. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Guest |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Address |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

element_flag in DD_Class

| <i>Name:</i> element_flag | | <i>Version Id:</i> 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|
| <i>Description:</i> The element flag attribute indicates whether or not the class is defined as a xs:element in XML Schema. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

element_flag in DD_Class_Full

| <i>Name:</i> element_flag | | | <i>Version Id:</i> 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------|
| <i>Description:</i> The element flag attribute indicates whether or not the class is defined as a xs:element in XML Schema. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Boolean |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Boolean |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

elements in Axis_Array

| <i>Name:</i> elements | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The elements attribute provides the count of the number of elements along an array axis. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Axis_Array | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

encoding_standard_id in Encoded_Binary

| <i>Name:</i> encoding_standard_id | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The encoding_standard_id attribute provides the formal name of a standard used for the structure of an Encoded Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Binary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | CCSDS Space Communications Protocols - *Deprecated* | The digital object is governed by the Consultative Committee for Space Data Systems (CCSDS) recommended standards on telecommand, telemetry and space datalink protocols. | |

encoding_standard_id in Encoded_Byte_Stream

| Name: encoding_standard_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The encoding_standard_id attribute provides the formal name of a standard used for the structure of an Encoded Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Byte_Stream | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

encoding_standard_id in Encoded_Header

| Name: encoding_standard_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The encoding_standard_id attribute provides the formal name of the standard governing structure of the Encoded_Header digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Header | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | TIFF | The Header is governed by the standard Tagged Image File Format (TIFF), Version 6.0, 1992. | |

encoding_standard_id in Encoded_Image

| Name: encoding_standard_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The encoding_standard_id attribute provides the formal name of a standard used for the structure of an Encoded Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Image | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | GIF | The Encoded_Image is governed by the standard Graphics Interchange Format (GIF). | |

| Name: encoding_standard_id | | Version Id: 1.0.0.0 |
|-----------------------------------|-------|-------------------------------------------------------------------------------------------------------------|
| | J2C | The Encoded_Image is governed by the standard JPEG2000 compressed image codestream. |
| | JPEG | The Encoded_Image is governed by the standard Joint Photographic Experts Group (JPEG), ISO/IEC 10918-1. |
| | PDF | The Encoded_Image is governed by the standard Portable Document Format (PDF), ISO 32000-1:2008. |
| | PDF/A | The Encoded_Image is governed by the standard Portable Document Format / Archive (PDF/A), ISO 19005-1:2005. |
| | PNG | The Encoded_Image is governed by the standard Portable Network Graphics (PNG), ISO/IEC 15948:2004. |
| | TIFF | The Encoded_Image is governed by the standard Tagged Image File Format (TIFF), Version 6.n, 1992. |

encoding_standard_id in Encoded_Native

| Name: encoding_standard_id | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The encoding_standard_id attribute provides the formal name of a standard used for the structure of an Encoded Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Native | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | SEED 2.4 | SEED (Standard for the Exchange of Earthquake Data) is an international standard format for archiving seismic data. The standard is maintained by the International Federation of Digital Seismograph Networks (FDSN). The details of the format are documented in the SEED Reference Manual, version 2.4 (published: 2009-01). | |

encoding_type in SPICE_Kernel

| Name: encoding_type | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The encoding_type attribute provides the storage format (binary or character). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> SPICE_Kernel | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: encoding_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Binary | The data object contains binary and possibly some character encoded data. | |
| | Character | The data object contains only character encoded data, for example ASCII or UTF-8 encoded characters. | |

enumeration_flag in DD_Value_Domain

| Name: enumeration_flag | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The enumeration_flag attribute indicates whether there is an enumerated set of permissible values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain | <i>Type:</i> ASCII_Boolean |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Flag | <i>Conceptual Domain:</i> Boolean |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

enumeration_flag in DD_Value_Domain_Full

| Name: enumeration_flag | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-----------------------------------|
| <i>Description:</i> The enumeration_flag attribute indicates whether there is an enumerated set of permissible values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full | <i>Type:</i> ASCII_Boolean |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Flag | <i>Conceptual Domain:</i> Boolean |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

error_constant in Special_Constants

| Name: error_constant | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The error_constant attribute provides a value that indicates the original value was in error. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: error_constant | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Constant | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

external_namespace_id in Property_Map

| Name: external_namespace_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The external_namespace_id attribute provides a namespace_id external to this context. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

external_property_map_id in Property_Maps

| Name: external_property_map_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The external_property_map_id attribute provides the identifier of a property_map instance external to this context. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Maps | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

external_property_maps_id in Ingest_LDD

| Name: external_property_maps_id | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The external_property_maps_id attribute provides the identifier of a property_maps instance external to this context. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Ingest_LDD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |

| | | |
|----------------------------------------|-----------------|----------------------------|
| Name: external_property_maps_id | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

external_source_product_identifier in Source_Product_External

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|------------------------------------|
| Name: external_source_product_identifier | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The external_source_product_identifier provides unique identifiers for one or more source products that are not in the PDS4 Registry. For guidelines on the construction of this identifier, refer to section 2.6.1.2 of the Data Provider's Handbook. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Source_Product_External | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

facet1 in Group_Facet1

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Name: facet1 | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The facet1 attribute provides a sub-categorization under the discipline_name. The values are restricted according to the value of discipline_name. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Group_Facet1 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | 2D (Spectroscopy) | A 2D array in which each pixel value directly represents the spectral measurement at that point. The physical axes of the array align with the axes of the spectral data. | |
| | Color (Imaging) | 3D data, typically with two spatial axes, where the third axis contains display color levels (RGB, CMYK, false color, etc.) | |
| | Color Movie (Imaging) | 4D data, typically with two spatial, one color, and one temporal axis | |
| | Dust Study (Small Bodies) | Dust measurements of all kinds and all targets | |
| | Dynamical Properties (Small Bodies) | Orbital parameters, proper elements, etc. | |
| | Electric (Fields) | Electrical field measurements | |

| Name: facet1 | | Version Id: 1.0.0.0 |
|---------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Electrons (Particles) | Electron measurements |
| | Gas Study (Small Bodies) | Gas measurements of all kinds and targets |
| | Grayscale (Imaging) | 2D data, typically with two spatial axes |
| | Historical Reference (Small Bodies) | Discovery circumstances, reference collections |
| | Ions (Particles) | Ion measurements |
| | Lightcurve (Small Bodies) | Light intensity variation with time, including rotational, secular, and occultation light curves |
| | Linear (Spectroscopy) | A table representing a single spectrum |
| | Magnetic (Fields) | Magnetic field measurements |
| | Meteoritics (Small Bodies) | Meteoroid streams, meteorite studies |
| | Meteorology (Atmospheres) | Meteorological observations |
| | Movie (Imaging) | 3D data, typically with two spatial and one temporal axis |
| | Neutrals (Particles) | Neutral particle measurements |
| | Photometry (Flux Measurements) | Photon measurements resulting in magnitudes, colors, etc. |
| | Physical Properties (Small Bodies) | Mass, density, albedo, etc. |
| | Polarimetry (Flux Measurements) | Linear and circular polarization studies |
| | Production Rates (Small Bodies) | Quantification of mass loss from, e.g., the nucleus of a comet: molecular production rates, Af?, etc. |
| | Ring Compositional Map (Ring-Moon Systems) | 3D data, typically with two spatial axes, where the third axis uses either color or intensity to depict chemical or particle size variations within the rings. |
| | Ring Occultation Profile (Ring-Moon Systems) | Derived ring occultation data uniformly sampled along the radial axis. The occulted signal may be either, radio, solar, or stellar in origin. |
| | Ring Thermal Map (Ring-Moon Systems) | 3D data, typically with two spatial axes, where the third axis uses either color or intensity to depict temperature variations within the rings. |
| | Satellite Astrometry (Ring-Moon Systems) | Astrometry of natural satellite in ring systems |
| | Shape Model (Small Bodies) | Shape models, slope models, terrain models, elevation models, etc. |
| | Spectral Cube (Spectroscopy) | Any 3D structure containing spectral data |
| | Spectral Image (Spectroscopy) | A 2D image of a spectrum, as projected on a focal plane. There may be multiple orders present, and the axes of the spectrum/spectra typically do not align with the edges of the image. |

| Name: facet1 | | Version Id: 1.0.0.0 |
|---------------------|--------------------------|--------------------------------------------------------------------------------------|
| | Structure (Atmospheres) | Atmospheric structure observations |
| | Tabulated (Spectroscopy) | A table with one spectrum per record, possibly for a different target in each record |
| | Taxonomy (Small Bodies) | Physical and dynamical taxonomies of small bodies |

facet2 in Group_Facet2

| Name: facet2 | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The facet2 attribute provides a sub-categorization (under the discipline_name) of the type of data being described by Primary_Result_Summary. The facet1 and facet2 values are intended to provide independent sub-categorizations. The values are restricted according to the value of discipline_name. Type: ASCII_Short_String_Collapsed | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Facet2 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Background (Fields) | Data characterize the slowly varying background field (typically at less than 100 Hz) | |
| | Cosmic Ray (Particles) | Data characterize the particle environment at energies greater than about 10 MeV | |
| | Energetic (Particles) | Data characterize the particle environment at energies in the approximate range 30keV-0.1 MeV | |
| | Plasma (Particles) | Data characterize the particle environment at energies less than about 30keV | |
| | Solar Energetic (Particles) | Data characterize the particle environment at energies in the approximate range 0.1-10MeV | |
| | Waves (Fields) | Data characterize higher frequency field variations and/or oscillations (typically at greater than 100 Hz). | |

field_delimiter in Table_Delimited

| Name: field_delimiter | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The field_delimiter attribute provides the character that marks the boundary between two fields in a delimited table. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Delimited | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Delimiter | <i>Conceptual Domain:</i> Short_String |

| Name: field_delimiter | | | Version Id: 1.0.0.0 |
|------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Comma | Fields in the delimited table are delimited by a single ASCII comma character (0x2C) | |
| | Horizontal Tab | Fields in the delimited table are delimited by a single ASCII horizontal tab character (0x09) | |
| | Semicolon | Fields in the delimited table are delimited by a single ASCII semicolon character (0x3B) | |
| | Vertical Bar | Fields in the delimited table are delimited by a single ASCII vertical bar character (0x7C) | |
| | comma - *Deprecated* | Fields in the delimited table are delimited by ASCII commas (0x2C) | |
| | horizontal tab - *Deprecated* | Fields in the delimited table are delimited by horizontal tab characters (0x09) | |
| | semicolon - *Deprecated* | Fields in the delimited table are delimited by ASCII semicolons (0x3B) | |
| | vertical bar - *Deprecated* | Fields in the delimited table are delimited by ASCII vertical bar characters (' ' - 0x7C) | |

field_format in Field_Binary

| Name: field_format | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------|------------------------------------|
| <i>Description:</i> The field_format attribute gives the magnitude and precision of the data value. This may specify the output format for a binary value, or give a general indication of the precision of a field, but is not used for validation. A subset of the standard POSIX string formats is allowed. See the PDS Standards Reference section “Field Formats” for details. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Binary | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Format | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: %[+, -]?[0-9]+([.][0-9]+)?[doxfeEs] | |
| Permissible Value(s) | No Values | | |

field_format in Field_Bit

| Name: field_format | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|------------------------------------|
| <i>Description:</i> The field_format attribute gives the magnitude and precision of the data value. This may specify the output format for a binary value, or give a general indication of the precision of a field, but is not used for validation. A subset of the standard POSIX string formats is allowed. See the PDS Standards Reference section “Field Formats” for details. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Bit | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: field_format | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Format | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> %[+, -]?[0-9]+(\.([0-9]+))?[doxfeEs] | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

field_format in Field_Character

| Name: field_format | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The field_format attribute gives the magnitude and precision of the data value. This may specify the output format for a binary value, or give a general indication of the precision of a field, but is not used for validation. A subset of the standard POSIX string formats is allowed. See the PDS Standards Reference section “Field Formats” for details. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Format | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> %[+, -]?[0-9]+(\.([0-9]+))?[doxfeEs] | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

field_format in Field_Delimited

| Name: field_format | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The field_format attribute gives the magnitude and precision of the data value. This may specify the output format for a binary value, or give a general indication of the precision of a field, but is not used for validation. A subset of the standard POSIX string formats is allowed. See the PDS Standards Reference section “Field Formats” for details. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Format | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> %[+, -]?[0-9]+(\.([0-9]+))?[doxfeEs] | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

field_length in Field_Binary

| Name: field_length | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|
| <i>Description:</i> The field_length attribute provides the number of bytes in the field. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Binary | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |

| | | | |
|---------------------------|-----------------|-----------------|----------------------------|
| Name: field_length | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

field_length in Field_Character

| | | | |
|-------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|---------------------------------|
| Name: field_length | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The field_length attribute provides the number of bytes in the field. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Character | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: Units_of_Storage | Default Unit Id: byte | Attribute Concept: Length | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

field_location in Field_Binary

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|---------------------------------|
| Name: field_location | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The field_location attribute provides the starting byte for a field within a record or group, counting from '1'. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Binary | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: Units_of_Storage | Default Unit Id: byte | Attribute Concept: Location | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

field_location in Field_Character

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|---------------------------------|
| Name: field_location | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The field_location attribute provides the starting byte for a field within a record or group, counting from '1'. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Character | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: Units_of_Storage | Default Unit Id: byte | Attribute Concept: Location | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

field_number in Field

| Name: field_number | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------|
| <i>Description:</i> The field_number attribute provides the position of a field, within a series of fields, counting from 1. If two fields within a record are physically separated by one or more groups, they have consecutive field numbers; the fields within the intervening group(s) are numbered separately. Fields within a group separated by one or more (sub)groups, will also have consecutive field numbers. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field |
| <i>Type:</i> ASCII_NonNegative_Integer | | |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None |
| <i>Maximum Characters:</i> None | | |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number |
| | | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

fields in Group

| Name: fields | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------|
| <i>Description:</i> The fields attribute provides a count of the total number of scalar fields directly associated with a group. Fields within (sub) groups of the group are not included in this count. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group |
| <i>Type:</i> ASCII_NonNegative_Integer | | |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None |
| <i>Maximum Characters:</i> None | | |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| | | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

fields in Record

| Name: fields | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------|
| <i>Description:</i> The fields attribute provides a count of the total number of scalar fields directly associated with a table record. Fields within groups within the record are not included in this count. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Record |
| <i>Type:</i> ASCII_NonNegative_Integer | | |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None |
| <i>Maximum Characters:</i> None | | |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| | | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

file_name in File

| Name: file_name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|-----------------------|-------------------------|------------------------------------|
| <i>Description:</i> The file_name attribute provides the name of a file. | | | |
| Namespace Id: pds | Steward: pds | Class Name: File | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

file_size in File

| Name: file_size | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------|-------------------------------------|--------------------------|---------------------------------|
| <i>Description:</i> The file_size attribute provides the size of the file. | | | |
| Namespace Id: pds | Steward: pds | Class Name: File | Type: ASCII_NonNegative_Integer |
| Minimum Value: 0 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: Units_of_Storage | Default Unit Id: byte | Attribute Concept: Size | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

files in Document_Edition

| Name: files | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------|-------------------------------------|------------------------------|---------------------------------|
| <i>Description:</i> The files attribute provides the number of files in the edition. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Document_Edition | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

files in Software_Binary

| Name: files | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------|--------------|-----------------------------|---------------------------------|
| <i>Description:</i> The files attribute provides the number of files. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Software_Binary | Type: ASCII_NonNegative_Integer |

| Name: files | | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------------------------------------|---------------------------------|-----------------------------------|
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

files in Software_Script

| Name: files | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------|--------------------------------------------|------------------------------------|----------------------------------------|
| <i>Description:</i> The files attribute provides the number of files. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Script | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

files in Software_Source

| Name: files | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------|--------------------------------------------|------------------------------------|----------------------------------------|
| <i>Description:</i> The files attribute provides the number of files. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

filter_number in Band_Bin *Deprecated*

| Name: filter_number | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------|----------------------------------------|
| <i>Description:</i> The filter_number attribute of a spectral qube describes the physical location of a band (identified by the band_number) in a detector array. Filter 1 is on the leading edge of the array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |

| | | | |
|----------------------------|-----------------|-----------------|----------------------------|
| Name: filter_number | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

first_sampling_parameter_value in Uniformly_Sampled

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|----------------------------|
| Name: first_sampling_parameter_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The first_sampling_parameter_value element provides the first value in an ascending series and is therefore the minimum value at which a given data item was sampled. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Uniformly_Sampled | Type: ASCII_Real |
| Minimum Value: -1.7976931348623157e308 | Maximum Value: 9.87976931348623157e308 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Real |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

formation_rule in ASCII_BibCode

| | | | |
|-------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Name: formation_rule | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_BibCode | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | YYYYJJJJVVVVMMPPA | The ADS BibCode is expressed as a series of six character strings, consisting of the year of publication (YYYY), the identifier for the journal (JJJJ), its volume number (VVVV), the type of journal (M), the page number (PPPP), and the last initial of the author (A). The format and its use are specified by the Astrophysics Data System (see http://adsabs.harvard.edu). | |

formation_rule in ASCII_DOI

| | | | |
|-------------------------------------------------------------------------------------------------------------|--------------|-----------------------|------------------------------------|
| Name: formation_rule | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_DOI | Type: ASCII_Short_String_Collapsed |

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 10.ssss/sss | The Digital Object Identifier (DOI) is expressed as the decimal number "10." followed by a character string followed by a forward slash "/" followed by another character string. The format and its use are specified by the International DOI Federation (see http://www.doi.org). | |

formation_rule in ASCII_Date *Deprecated*

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | YYYY-MM-DD/ YYYY-DOY | The date must be expressed in either the YYYY-MM-DD or the YYYY-DOY format where YYYY is the 4-digit year (-9999 to 9999), MM is the 2-digit month (01-12), DD is the 2-digit day-of-month (01-31), and DOY is the 3-digit day-of-year (001-366) | |

formation_rule in ASCII_Date_DOY

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | YYYY-DOY | The value must be expressed in the YYYY-DOY format where YYYY is the 4-digit year (-9999 to 9999) and DOY is the 3-digit day-of-year (001-366) | |

formation_rule in ASCII_Date_Time *Deprecated*

| Name: formation_rule | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | YYYY-MM-DDTHH:MM:SS.SSS(Z)/YYYY-DOYTHH:MM:SS.SSS(Z) | The date must be expressed in either the YYYY-MM-DD or the YYYY-DOY format where YYYY is the 4-digit year (-9999 to 9999), MM is the 2-digit month-of-year (01-12), DD is the 2-digit day-of-month, and DOY is the 3-digit day-of-year (001-366). "T" is a delimiter separating date and time. Time must be expressed in the HH:MM:SS.SSS(Z) format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), SSS is milliseconds (000-999), and "(Z)" indicates that "Z" may be optionally appended to denote UTC. | |

formation_rule in ASCII_Date_Time_DOY

| Name: formation_rule | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | YYYY-DOYTHH:MM:SS.SSSSSS(Z) | YYYY-DOYTHH:MM:SS.SSSSSS(Z) - The date must be expressed in the YYYY-DOY format where YYYY is the 4-digit year (-9999 to 9999) and DOY is the 3-digit day-of-year (001-366). "T" is a delimiter separating date and time. Time must be expressed in the HH:MM:SS.SSSSSS(Z) format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), SSSSSS is microseconds (000000-999999), and | |

| | | |
|-----------------------------|--|--------------------------------------------------------------------|
| Name: formation_rule | | Version Id: 1.0.0.0 |
| | | "(Z)" indicates that "Z" may be optionally appended to denote UTC. |

formation_rule in ASCII_Date_Time_DOY_UTC

| | | |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: formation_rule | | Version Id: 1.0.0.0 |
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY_UTC |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | YYYY-DOYTHH:MM:SS.SSSSSSZ | YYYY-DOYTHH:MM:SS.SSSSSSZ - The date must be expressed in the YYYY-DOY format where YYYY is the 4-digit year (-9999 to 9999) and DOY is the 3-digit day-of-year (001-366). "T" is a delimiter separating date and time. Time must be expressed in the HH:MM:SS.SSSSSSZ format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), SSSSS is microseconds (000000-999999), and "Z" denotes UTC. |

formation_rule in ASCII_Date_Time_UTC *Deprecated*

| | | |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: formation_rule | | Version Id: 1.0.0.0 |
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_UTC *Deprecated* |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | YYYY-MM-DDTHH:M-M:SS.SSSZ/YYYY-DOYTHH:M-M:SS.SSSZ | The date must be expressed in either the YYYY-MM-DD or the YYYY-DOY format where YYYY is the 4-digit year (-9999 to 9999), MM is the 2-digit month-of-year (01-12), DD is the 2-digit day-of-month, and DOY is the 3-digit |

| Name: formation_rule | | Version Id: 1.0.0.0 |
|-----------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | day-of-year (001-366). "T" is a delimiter separating date and time. Time must be expressed in the HH:MM:SS.SSS(Z) format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), SSS is milliseconds (000-999), and "Z" denotes that the combination is given in UTC. |

formation_rule in ASCII_Date_Time_YMD

| Name: formation_rule | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | YYYY-MM-DDTHH:MM:SS.SSSSSS(Z) | YYYY-MM-DDTHH:MM:SS.SSSSSS(Z) - The date must be expressed in the YYYY-MM-DD format where YYYY is the 4-digit year (-9999 to 9999), MM is the 2-digit month-of-year (01-12), DD is the 2-digit day-of-month, and DOY is the 3-digit day-of-year (001-366). "T" is a delimiter separating date and time. Time must be expressed in the HH:MM:SS.SSSSSS(Z) format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), SSSSSS is microseconds (000000-999999), and "(Z)" indicates that "Z" may be optionally appended to denote UTC. | |

formation_rule in ASCII_Date_Time_YMD_UTC

| Name: formation_rule | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_YMD_UTC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| Name: formation_rule | | Version Id: 1.0.0.0 |
|-----------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | YYYY-MM-DDTHH:MM:SS.SSSSSSZ | YYYY-MM-DDTHH:MM:SS.SSSSSSZ - The date must be expressed in the YYYY-MM-DD format where YYYY is the 4-digit year (-9999 to 9999), MM is the 2-digit month-of-year (01-12), DD is the 2-digit day-of-month, and DOY is the 3-digit day-of-year (001-366). "T" is a delimiter separating date and time. Time must be expressed in the HH:MM:SS.SSSSSZ format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), SSSSS is microseconds (000000-999999), and "Z" denotes UTC. |

formation_rule in ASCII_Date_YMD

| Name: formation_rule | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | YYYY-MM-DD | The date must be expressed in the YYYY-MM-DD format where YYYY is the 4-digit year (-9999 to 9999), MM is the 2-digit month-of-year (01-12), and DD is the 2-digit day-of-month (01-31). | |

formation_rule in ASCII_Directory_Path_Name

| Name: formation_rule | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Directory_Path_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | dir1/dir2/ | The path name to the directory must be given as the sequence of directories traversed between the current working directory and the target directory where each directory name is followed by | |

| | | |
|-----------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Name: formation_rule | | Version Id: 1.0.0.0 |
| | | the forward slash character ("/"). See the PDS4 Standards Reference section "File and Directory Naming" for rules on forming directory names. |

formation_rule in ASCII_File_Name

| | | |
|-------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: formation_rule | | Version Id: 1.0.0.0 |
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_File_Name |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | file_name.file_extension | The file name is expressed as a base file name plus a file name extension separated by the ASCII period character ("."). Rules for forming file names are given in the PDS4 Standards Reference section "File and Directory Naming". |

formation_rule in ASCII_File_Specification_Name

| | | |
|-------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name: formation_rule | | Version Id: 1.0.0.0 |
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_File_Specification_Name |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | dir1/dir2/file_name.file_extension | The complete path name to the file is given as the sequence of directories traversed between the current working directory and the target directory where each directory name is followed by the forward slash character ("/") plus the file name, which is expressed as a base file name plus a file name extension separated by the ASCII period character ("."). Rules for forming file and directory names are given in the PDS4 Standards Reference section "File and Directory Naming". |

formation_rule in ASCII_LID

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | urn:xxx:yyy:zzzz | The logical identifier is formed by concatenating "urn", "xxx" (e.g., nasa), and "yyy" (e.g., pds) with an identifier (represented by "zzzz") chosen by the data provider. Colons separate the fields. Rules for forming logical identifiers are given in the PDS4 Standards Reference section "Logical Identifier". | |

formation_rule in ASCII_LIDVID

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | urn:xxx:yyy:zzzz::M.n | A versioned identifier (LIDVID) is formed by appending a version identifier (VID) of the form M.n to a logical identifier (LID) of the form urn:xxx:yyy:zzzz. Rules for forming versioned identifiers are given in the PDS4 Standards Reference section "Identifiers". | |

formation_rule in ASCII_LIDVID_LID

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | urn:xxx:yyy:zzzz/ urn:xxx:yyy:zzzz::M.n | The value must be a logical identifier (LID) of the form urn:xxx:yyy:zzzz or a versioned identifier (LIDVID) of the form urn:xxx:yyy:zzzz::M.n. Rules for forming logical and versioned identifiers are given in the PDS4 Standards Reference section "Identifiers". | |

formation_rule in ASCII_MD5_Checksum

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_MD5_Checksum | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 0123456789abcdef | The value must be a character string of exactly 32 characters consisting of the digits 0-9 and the lower case letters a-f or upper case letters A-F (but not mixed case). | |

formation_rule in ASCII_Time

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | HH:MM:SS.SSS | The time must be expressed in the HH:M-M:SS.SSS format where HH is the 2-digit hour (00-23), MM is the 2-digit minute (00-59), SS is the 2-digit integer second (00-60), and SSS is milliseconds (000-999). | |

formation_rule in ASCII_VID

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | M.n | A version identifier (VID) has the form M.n where M denotes the major version and n denotes the minor version. Rules for forming version identifiers are given in the PDS4 Standards Reference section "Identifiers". | |

formation_rule in Character_Data_Type

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

formation_rule in DD_Value_Domain

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain | <i>Type:</i> ASCII_Text_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

formation_rule in DD_Value_Domain_Full

| Name: formation_rule | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-----------------------------------|
| <i>Description:</i> The formation_rule attribute provides a 'user friendly' instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full | <i>Type:</i> ASCII_Text_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

full_name in Ingest_LDD

| Name: full_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The full_name attribute provides the complete name for a person and includes titles and suffixes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Ingest_LDD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

full_name in Subscriber_PDS3

| Name: full_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The full_name attribute provides the complete name for a person and includes titles and suffixes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Subscriber_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

full_name in Update_Entry

| Name: full_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The full_name attribute provides the complete name for a person and includes titles and suffixes. | | | |

| Name: full_name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Update_Entry | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

grating_position in Band_Bin *Deprecated*

| Name: grating_position | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------|----------------------------------------|
| <i>Description:</i> The grating_position attribute of a spectral qube describes the grating position which corresponds to the band. Grating positions are usually assigned consecutively from 0, and increasing position causes increasing wavelength for each detector. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

group_length in Group_Field_Binary

| Name: group_length | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------|
| <i>Description:</i> The group_length attribute provides the total length, in bytes, of a repeating field and/or group structure. It is the number of bytes in the repeating fields/groups plus any embedded unused bytes that are also repeated multiplied by the number of repetitions. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Field_Binary | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

group_length in Group_Field_Character

| Name: group_length | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------|----------------------------------------|
| <i>Description:</i> The group_length attribute provides the total length, in bytes, of a repeating field and/or group structure. It is the number of bytes in the repeating fields/groups plus any embedded unused bytes that are also repeated multiplied by the number of repetitions. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Field_Character | <i>Type:</i> ASCII_NonNegative_Integer |

| Name: group_length | | | Version Id: 1.0.0.0 |
|-----------------------------------------------|--------------------------------------------|----------------------------------|-----------------------------------|
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

group_location in Group_Field_Binary

| Name: group_location | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------|
| <i>Description:</i> The group_location attribute provides the starting position for a Group_Field_Binary within the containing Record_Binary or Group_Field_Binary class, in bytes. Location '1' denotes the first byte of the containing class. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Field_Binary | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Location | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

group_location in Group_Field_Character

| Name: group_location | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------|----------------------------------------|
| <i>Description:</i> The group_location attribute provides the starting position for a Group_Field_Character within the containing Record_Character or Group_Field_Character class, in bytes. Location '1' denotes the first byte of the containing class. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Field_Character | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Location | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

group_number in Group

| Name: group_number | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|----------------------------------------|
| <i>Description:</i> The group_number attribute provides the position of a group, within a series of groups, counting from 1. If two groups within a record are physically separated by one or more fields, they have consecutive group numbers; the intervening fields are numbered separately. Groups within a parent group, but separated by one or more fields, will also have consecutive group numbers. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group | <i>Type:</i> ASCII_NonNegative_Integer |

| Name: group_number | | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------------------------------------|----------------------------------|-----------------------------------|
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

groups in Group

| Name: groups | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The groups attribute provides a count of the number of (sub)groups within the repeating structure of a group. (Subsub)groups within (sub)groups within the group are not included in this count. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

groups in Record

| Name: groups | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The groups attribute provides a count of the total number of groups directly associated with a table record. Groups within groups within the record are not included in this count. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Record | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

high_instrument_saturation in Special_Constants

| Name: high_instrument_saturation | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The high_instrument_saturation attribute specifies a special value whose presence indicates the measuring instrument was saturated at the high end. The value must be less than the value of the valid_minimum attribute or more than the value of the valid_maximum attribute. Values of this attribute should be represented in the same data_type as the elements in the object with which the Special_Constants class is associated. | | | |
| | | | |

| Name: high_instrument_saturation | | | Version Id: 1.0.0.0 |
|-----------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

high_representation_saturation in Special_Constants

| Name: high_representation_saturation | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The high_representation_saturation attribute specifies a special value whose presence indicates the true value cannot be represented in the chosen data type and length -- in this case being above the allowable range -- which may happen during conversion from another data type. The value must be less than the value of the valid_minimum attribute or more than the value of the valid_maximum attribute. Values of this attribute should be represented in the same data_type as the elements in the object with which the Special_Constants class is associated. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

id_reference_from in Local_ID_Relation

| Name: id_reference_from | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The id_reference_from provides the identifier of the starting object in a one directional relationship. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Relation | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

id_reference_to in Local_ID_Reference

| Name: id_reference_to | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The id_reference_to provides the identifier of the ending object in a one directional relationship. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

id_reference_to in Local_ID_Relation

| Name: id_reference_to | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The id_reference_to provides the identifier of the ending object in a one directional relationship. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Relation | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

id_reference_type in Local_ID_Reference

| Name: id_reference_type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The id_reference_type attribute provides the name of an association between two objects. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | has_component | The referenced digital object is a component of a composite structure. | |
| | has_primary_component | The referenced digital object is the primary component of a composite structure. | |

id_reference_type in Local_ID_Relation

| Name: id_reference_type | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The id_reference_type attribute provides the name of an association between two objects. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_ID_Relation | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | has_axis_values | The referenced description object provides values on an axis. | |
| | has_backplane | The referenced description object describes a backplane. | |
| | has_column_headers | The referenced description object provides column headers for the referring description object. | |
| | has_display_settings | The referenced description object describes how the digital object should be displayed on a display device. | |
| | has_spectral_characteristics | The referenced description object describes the spectral characteristics of the referring description object.. | |

identifier in Property_Map

| Name: identifier | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The identifier attribute provides the formal name used to refer to an object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

identifier in Property_Maps

| Name: identifier | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The identifier attribute provides the formal name used to refer to an object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Maps | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: identifier | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

identifier in Terminological_Entry_SKOS

| Name: identifier | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The identifier attribute provides the formal name used to refer to an object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

identifier_reference in DD_Association

| Name: identifier_reference | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The identifier_reference attribute provides the value of an identifier. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

information_model_version in Identification_Area

| Name: information_model_version | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The information_model_version attribute provides the version identification of the PDS Information Model on which the label and schema are based. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Identification_Area | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| Name: information_model_version | | Version Id: 1.0.0.0 |
|----------------------------------------|----------|--------------------------------------------------------------------------------------|
| | 1.0.0.0 | Information Model version 1.0.0.0 was the first public release of PDS4 (May 7, 2013) |
| | 1.1.0.0 | Information Model version 1.1.0.0 was released on October 1, 2013 |
| | 1.10.0.0 | Information Model version 1.10.0.0 was released on March 30, 2018. |
| | 1.10.1.0 | Information Model version 1.10.1.0 was released on May 1, 2018 |
| | 1.11.0.0 | Information Model version 1.11.0.0 was released on September 28, 2018. |
| | 1.12.0.0 | Information Model version 1.12.0.0 was released on March 29, 2019. |
| | 1.2.0.0 | Information Model version 1.2.0.0 was released on March 18, 2014. |
| | 1.2.0.1 | Information Model version 1.2.0.1 was released on March 28, 2014. |
| | 1.3.0.0 | Information Model version 1.3.0.0 was released on September 10, 2014. |
| | 1.3.0.1 | Information Model version 1.3.0.1 was released on September 29, 2014. |
| | 1.4.0.0 | Information Model version 1.4.0.0 was released on March 10, 2015. |
| | 1.5.0.0 | Information Model version 1.5.0.0 was released on September 30, 2015. |
| | 1.6.0.0 | Information Model version 1.6.0.0 was released on March 31, 2016. |
| | 1.7.0.0 | Information Model version 1.7.0.0 was released on September 30, 2016. |
| | 1.8.0.0 | Information Model version 1.8.0.0 was released on March 31, 2017. |
| | 1.9.0.0 | Information Model version 1.9.0.0 was released on September 29, 2017. |
| | 1.9.1.0 | Information Model version 1.9.1.0 was released on December 12, 2017. |

install_note in Software_Script

| Name: install_note | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The install note attribute provides a brief statement giving particulars about the installation of the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Script | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| | |
|---------------------------|----------------------------|
| Name: install_note | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values |

instance_id in Property_Map

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|------------------------------------|
| Name: instance_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The instance_id attribute provides an identifier for the single occurrence of an object, for example an XPath. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Property_Map | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

instance_id in Terminological_Entry

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|------------------------------------|
| Name: instance_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The instance_id attribute provides an identifier for the single occurrence of an object, for example an XPath. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Terminological_Entry | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

instance_id in Terminological_Entry_SKOS

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|------------------------------------|
| Name: instance_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The instance_id attribute provides an identifier for the single occurrence of an object, for example an XPath. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Terminological_Entry_SKOS | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

institution_name in Node

| Name: institution_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The institution_name attribute provides the name of the associated institution. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Node | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [a-zA-Z]{1}([-/_,.a-zA-Z0-9]*) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

institution_name in PDS_Affiliate

| Name: institution_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The institution_name attribute provides the name of the associated institution. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [a-zA-Z]{1}([-/_,.a-zA-Z0-9]*) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_desc in Instrument_PDS3

| Name: instrument_desc | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The instrument_desc attribute describes a given instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_PDS3 | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_host_desc in Instrument_Host_PDS3

| Name: instrument_host_desc | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------|---------------------|-----------------------------------------|-----------------------------------|
| <i>Description:</i> The instrument_host_desc provides a description of an instrument host | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_Host_PDS3 | <i>Type:</i> ASCII_Text_Preserved |

| Name: instrument_host_desc | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------|---------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

instrument_host_id in Instrument_Host_PDS3

| Name: instrument_host_id | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument_host_id attribute provides a unique identifier for the host on which an instrument is located. This host can be either a spacecraft or an earth base (e.g. earth). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_Host_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

instrument_host_name in Instrument_Host_PDS3

| Name: instrument_host_name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument_host_name attribute provides the full name of the platform or facility upon which an instrument or other device is mounted. For example, the host can be a spacecraft, a ground-based telescope, or a laboratory. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_Host_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

instrument_host_type in Instrument_Host_PDS3

| Name: instrument_host_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument_host_type attribute provides the type of host on which an instrument is based. For example instrument is located on a spacecraft instrument_host_type attribute would have the value SPACECRAFT. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_Host_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_host_version_id in Instrument_Host *Deprecated*

| Name: instrument_host_version_id *Deprecated* | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument_host_version_id attribute provides the version of the instrument host. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_id in Instrument_PDS3

| Name: instrument_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument id provides a formal name used to refer to an instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_name in Instrument_PDS3

| Name: instrument_name | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument_name attribute provides a unique name for an instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_serial_number in Instrument_PDS3

| Name: instrument_serial_number | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument serial number element provides the manufacturer's serial number assigned to an instrument. This number may be used to uniquely identify a particular instrument for tracing its components or determining its calibration history, for example. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_type in Instrument_PDS3

| Name: instrument_type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The instrument_type attribute identifies the type of an instrument. Example values: POLARIMETER SPECTROMETER | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

instrument_version_id in Instrument_PDS3

| Name: instrument_version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The Instrument_Version_Id element identifies the specific model of an instrument used to obtain data. For example, this keyword could be used to distinguish between an engineering model of a camera used to acquire test data, and a flight model of a camera used to acquire science data during a mission. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Instrument_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

interface_type in Service

| Name: interface_type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The interface type attribute identifies the class of interconnection provided. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | API | The tool or service provides an Application Programming Interface for interfacing with the software. | |
| | Command-Line | The tool provides a command-line interface and is most commonly executed in a terminal window. | |
| | GUI | The tool or service provides a graphical user interface, either as a desktop application or a web-based interface, for interfacing with the software. | |
| | Service | The service provides a web-based programming interface (e.g., HTTP, SOAP, etc.). | |

invalid_constant in Special_Constants

| Name: invalid_constant | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The invalid_constant attribute provides a value that indicates the original value was outside the valid range for the parameter. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: invalid_constant | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Constant | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

kernel_type in SPICE_Kernel

| Name: kernel_type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The kernel_type attribute identifies the type of SPICE kernel. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> SPICE_Kernel | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | CK | SPICE_Kernel is type CK (orientation kernel) | |
| | DBK | SPICE_Kernel is type DBK (database kernel) | |
| | DSK | SPICE_Kernel is type DSK (digital shape kernel) | |
| | EK | SPICE_Kernel is type EK (events kernel) | |
| | FK | SPICE_Kernel is type FK (frames kernel) | |
| | IK | SPICE_Kernel is type IK (instrument kernel) | |
| | LSK | SPICE_Kernel is type LSK (leap seconds kernel) | |
| | MK | SPICE_Kernel is type MK (meta kernel, which names SPICE kernels to be used together) | |
| | PCK | SPICE_Kernel is type PCL (planetary constants kernel) | |
| | SCLK | SPICE_Kernel is type SCLK (spacecraft clock kernel) | |
| | SPK | SPICE_Kernel is type SPK (ephemeris kernel) | |

keyword in Citation_Information

| Name: keyword | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|------------------------------------------|
| <i>Description:</i> The keyword attribute provides one or more words to be used for keyword search. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Citation_Information | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Short_String |

| | | | |
|----------------------|-----------------|---------------|----------------------------|
| Name: keyword | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

language in Document_Edition

| | | | |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|------------------------------------|
| Name: language | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The language attribute provides the language used for definition and designation of the term. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Document_Edition | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | English | The text in the Document Edition is in English. | |

language in Terminological_Entry

| | | | |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|------------------------------------|
| Name: language | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The language attribute provides the language used for definition and designation of the term. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Terminological_Entry | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Text | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | English | Values in Terminological_Entry are in English | |
| | Russian | Values in Terminological_Entry are in Russian | |

last_modification_date_time in Ingest_LDD

| | | | |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|---------------------------|
| Name: last_modification_date_time | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The last_modification_date_time attribute gives the most recent date and time that a change was made. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Ingest_LDD | Type: ASCII_Date_Time_YMD |
| Minimum Value: None | Maximum Value: None | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Time | Conceptual Domain: Time |

| | | | |
|------------------------------------------|-----------------|---------------|----------------------------|
| Name: last_modification_date_time | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

last_sampling_parameter_value in Uniformly_Sampled

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|----------------------------|
| Name: last_sampling_parameter_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The last_sampling_parameter_value element provides the last value in an ascending series and is therefore the maximum value at which a given data item was sampled. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Uniformly_Sampled | Type: ASCII_Real |
| Minimum Value: -1.7976931348623157e308 | Maximum Value: 931348623157e308 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Real |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

ldd_version_id in Ingest_LDD

| | | | |
|-----------------------------------------------------------------------------------------------------|-----------------------|------------------------|------------------------------------|
| Name: ldd_version_id | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The ldd_version_id attribute provides the version of the Local Data Dictionary. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Ingest_LDD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

ldd_version_id in XML_Schema

| | | | |
|-----------------------------------------------------------------------------------------------------|-----------------------|-------------------------|------------------------------------|
| Name: ldd_version_id | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The ldd_version_id attribute provides the version of the Local Data Dictionary. | | | |
| Namespace Id: pds | Steward: pds | Class Name: XML_Schema | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

lid_reference in Bundle_Member_Entry

| Name: lid_reference | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|----------------------------------------|
| <i>Description:</i> The lid_reference attribute provides the logical_identifier for a product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Bundle_Member_Entry | <i>Type:</i> ASCII_LID |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 13 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Reference | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

lid_reference in Internal_Reference

| Name: lid_reference | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|----------------------------------------|
| <i>Description:</i> The lid_reference attribute provides the logical_identifier for a product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Internal_Reference | <i>Type:</i> ASCII_LID |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 13 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Reference | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

lidvid_reference in Bundle_Member_Entry

| Name: lidvid_reference | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|----------------------------------------|
| <i>Description:</i> The lidvid_reference attribute provides the logical_identifier plus version_id, which uniquely identifies a product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Bundle_Member_Entry | <i>Type:</i> ASCII_LIDVID |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 18 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Reference | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

lidvid_reference in Internal_Reference

| Name: lidvid_reference | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|----------------------------|
| <i>Description:</i> The lidvid_reference attribute provides the logical_identifier plus version_id, which uniquely identifies a product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Internal_Reference | <i>Type:</i> ASCII_LIDVID |

| Name: lidvid_reference | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 18 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Reference | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

lidvid_reference in Source_Product_Internal

| Name: lidvid_reference | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The lidvid_reference attribute provides the logical_identifier plus version_id, which uniquely identifies a product. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Source_Product_Internal | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

line_display_direction in Display_2D_Image ***Deprecated***

| Name: line_display_direction | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The line_display_direction element is the preferred orientation of lines within an image for viewing on a display device. Note that if this keyword is present in a label, the sample_display_direction keyword must also be present and must contain a value orthogonal to the value selected for this keyword. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Display_2D_Image *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Direction | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Down | The preferred orientation of lines within an image for viewing on a display device is Down | |
| | Up | The preferred orientation of lines within an image for viewing on a display device is Up | |

local_identifier in Axis_Array

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Axis_Array | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Byte_Stream

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Byte_Stream | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Composite_Structure

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Composite_Structure | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in DD_Association *Deprecated*

| Name: local_identifier *Deprecated* | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in DD_Attribute

| Name: local_identifier | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in DD_Attribute_Full

| Name: local_identifier | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in DD_Class

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in DD_Class_Full

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in DD_Rule

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Rule | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Field_Statistics

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------|----------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Statistics | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in File

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> File | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Object_Statistics

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Quaternion

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|-------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternion | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Subscriber_PDS3

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Subscriber_PDS3 | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Update *Deprecated*

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Update *Deprecated* | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier in Vector

| Name: local_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Description:</i> The local_identifier attribute provides a character string which uniquely identifies the containing object within the label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector | <i>Type:</i> ASCII_Local_Identifier |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

local_identifier_reference in Local_Internal_Reference

| Name: local_identifier_reference | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|
| <i>Description:</i> The local_identifier_reference attribute provides the value of the local_identifier of the entity described by the referencing class. Note that a local_identifier attribute, with the same value as this local_identifier_reference, must be present within the label. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_Internal_Reference |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

local_mean_solar_time in Time_Coordinates

| Name: local_mean_solar_time | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|
| <i>Description:</i> The local_mean_solar_time attribute provides the hour angle of the fictitious mean Sun at a fixed point on a rotating solar system body. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Time_Coordinates |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 8 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

local_reference_type in Local_Internal_Reference

| Name: local_reference_type | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|
| <i>Description:</i> The local_reference_type attribute provides the name of an association between an entity identified by a local_identifier_reference and another corresponding entity identified by a local_identifier. The values for the local_reference_type are expected to be enumerated for appropriate contexts in the Schematron files of local (i.e., discipline and mission) data dictionaries. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Local_Internal_Reference |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

local_true_solar_time in Time_Coordinates

| <i>Name:</i> local_true_solar_time | | | <i>Version Id:</i> 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The local_true_solar_time (LTST) attribute provides the local time on a rotating solar system body where LTST is 12 h at the sub-solar point (SSP) and increases 1 h for each 15 degree increase in east longitude away from the SSP for prograde rotation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Time_Coordinates | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 8 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

logical_identifier in Identification_Area

| <i>Name:</i> logical_identifier | | | <i>Version Id:</i> 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> A logical identifier identifies the set of all versions of an object. It is an object identifier without a version. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Identification_Area | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

low_instrument_saturation in Special_Constants

| <i>Name:</i> low_instrument_saturation | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The low_instrument_saturation attribute specifies a special value whose presence indicates the measuring instrument was saturated at the low end. The value must be less than the value of the valid_minimum attribute. Values of this attribute should be represented in the same data_type as the elements in the object with which the Special_Constants class is associated. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

low_representation_saturation in Special_Constants

| Name: low_representation_saturation | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|
| <i>Description:</i> The low_representation_saturation attribute specifies a special value whose presence indicates the true value cannot be represented in the chosen data type and length -- in this case being below the allowable range -- which may happen during conversion from another data type. The value must be less than the value of the valid_minimum attribute. Values of this attribute should be represented in the same data_type as the elements in the object with which the Special_Constants class is associated. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

manifest_checksum in Information_Package_Component_Deep_Archive

| Name: manifest_checksum | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|
| <i>Description:</i> The manifest checksum provides the checksum for the manifest file. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Information_Package_Component_Deep_Archive |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

manifest_url in Information_Package_Component_Deep_Archive

| Name: manifest_url | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|
| <i>Description:</i> The manifest url provides the URL to the manifest file. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Information_Package_Component_Deep_Archive |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None <i>Conceptual Domain:</i> None |

| | | | |
|---------------------------|-----------------|---------------|----------------------------|
| Name: manifest_url | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum in Field_Statistics

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|----------------------------|
| Name: maximum | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The maximum attribute provides the largest stored value which appears in the field over all records (empty fields and Special_Constants values are excluded). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Statistics | Type: ASCII_Real |
| Minimum Value: -1.7976931348623157e3087976931348623157e30 | Maximum Value: 087976931348623157e30 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Number | Conceptual Domain: Real |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum in Object_Statistics

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|----------------------------|
| Name: maximum | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The maximum attribute provides the largest value which appears in the stored array after application of any bit mask (Special_Constants values are excluded). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Object_Statistics | Type: ASCII_Real |
| Minimum Value: -1.7976931348623157e3087976931348623157e30 | Maximum Value: 087976931348623157e30 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Number | Conceptual Domain: Real |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_characters in ASCII_AnyURI

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|------------------------------------|
| Name: maximum_characters | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_AnyURI | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_characters in ASCII_DOI

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_DOI | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Date *Deprecated*

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Date_DOY

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Date_Time

Deprecated

| Name: maximum_characters | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Date_Time_DOY

| Name: maximum_characters | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Date_Time_UTC *Deprecated*

| Name: maximum_characters | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_UTC *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| | |
|---------------------------------|----------------------------|
| Name: maximum_characters | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values |

maximum_characters in ASCII_Date_Time_YMD

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Name: maximum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_YMD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_characters in ASCII_Date_YMD

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------------------|
| Name: maximum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_YMD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_characters in ASCII_Directory_Path_Name

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|------------------------------------|
| Name: maximum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Directory_Path_Name | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|---------------------------------|--------------|--------------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of ASCII_Directory_Path_Name may have no more than 255 characters |

maximum_characters in ASCII_File_Name

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_File_Name |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of ASCII_File_Name may have no more than 255 characters |

maximum_characters in ASCII_File_Specification_Name

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_File_Specification_Name |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of ASCII_File_Specification_Name may have no more than 255 characters |

maximum_characters in ASCII_Integer

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Integer |
| | | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_LID

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_LID may have no more than 255 characters | |

maximum_characters in ASCII_LIDVID

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_LIDVID may have no more than 255 characters | |

maximum_characters in ASCII_LIDVID_LID

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID_LID | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_LIDVID_LID may have no more than 255 characters | |

maximum_characters in ASCII_Local_Identifier

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Local_Identifier | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_Local_Identifier may have no more than 255 characters | |

maximum_characters in ASCII_Local_Identifier_Reference

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Local_Identifier_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_Local_Identifier_Reference may have no more than 255 characters | |

maximum_characters in ASCII_MD5_Checksum

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_MD5_Checksum |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 32 | Values of ASCII_MD5_Checksum may have no more than 32 characters |

maximum_characters in ASCII_NonNegative_Integer

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

maximum_characters in ASCII_Numeric_Base16

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base16 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|---------------------------------|--------------|---------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of ASCII_Numeric_Base16 may have no more than 255 characters |

maximum_characters in ASCII_Numeric_Base2

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base2 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of ASCII_Numeric_Base2 may have no more than 255 characters |

maximum_characters in ASCII_Numeric_Base8

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base8 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of ASCII_Numeric_Base8 may have no more than 255 characters |

maximum_characters in ASCII_Real

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Real |
| | | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_characters in ASCII_Short_String_Collapsed

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_Short_String_Collapsed may have no more than 255 characters | |

maximum_characters in ASCII_Short_String_Preserved

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 255 | Values of ASCII_Short_String_Preserved may have no more than 255 characters | |

maximum_characters in ASCII_Text_Collapsed

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Text_Preserved

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_Time

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in ASCII_VID

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 100 | Values of ASCII_VID may have no more than 100 characters | |

maximum_characters in Character_Data_Type

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_characters in DD_Value_Domain

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_characters in DD_Value_Domain_Full

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

maximum_characters in UTF8_Short_String_Collapsed

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 255 | Values of UTF8_Short_String_Collapsed may have no more than 255 characters | |

maximum_characters in UTF8_Short_String_Preserved

| Name: maximum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: maximum_characters | | Version Id: 1.0.0.0 |
|---------------------------------|--------------|----------------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 255 | Values of UTF8_Short_String_Preserved may have no more than 255 characters |

maximum_characters in UTF8_Text_Preserved

| Name: maximum_characters | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_characters attribute provides the upper, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_field_length in Field_Delimited

| Name: maximum_field_length | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------|----------------------------------------|
| <i>Description:</i> The maximum_field_length attribute sets an upper, inclusive bound on the number of bytes in the field. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_occurrences in DD_Association

| Name: maximum_occurrences | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum occurrences attribute indicates the number of times something may occur. It is also called the maximum cardinality. The asterisk character is used as a value to indicate that no upper bound exists. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |

| | | |
|----------------------------------|----------------------------|---------------|
| Name: maximum_occurrences | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

maximum_occurrences in DD_Association_External *Deprecated*

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------|------------------------------------|
| Name: maximum_occurrences | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum occurrences attribute indicates the number of times something may occur. It is also called the maximum cardinality. The asterisk character is used as a value to indicate that no upper bound exists. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Association_External *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_record_length in Record_Delimited

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------|---------------------------------|
| Name: maximum_record_length | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_record_length attribute provides the maximum length of a record, including the record delimiter. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Record_Delimited | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: Units_of_Storage | Default Unit Id: byte | Attribute Concept: Length | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

maximum_scaled_value in Object_Statistics

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------|--------------------------|
| Name: maximum_scaled_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_scaled_value attribute provides the maximum value after application of scaling_factor and value_offset (see their definitions; maximum_scaled_value is the maximum of Ov). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Object_Statistics | Type: ASCII_Real |
| Minimum Value: -1.7976931348623157e308 | Maximum Value: 1.7976931348623157e308 | Minimum Characters: None | Maximum Characters: None |

| Name: maximum_scaled_value | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|----------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_Date_Time *Deprecated*

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_Date_Time_DOY

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_Date_Time_UTC *Deprecated*

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_UTC *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |

| | | |
|----------------------------|----------------------------|---------------|
| Name: maximum_value | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

maximum_value in ASCII_Date_Time_YMD

| | | | |
|---------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Name: maximum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_YMD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_value in ASCII_Integer

| | | | |
|---------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|------------------------------------|
| Name: maximum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Integer | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | 9223372036854775807 | The maximum value must be less than or equal to the equivalent integer value for $2^{63}-1$ | |

maximum_value in ASCII_LID

| | | | |
|---------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------------------------|
| Name: maximum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_LID | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_value in ASCII_NonNegative_Integer

| Name: maximum_value | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_NonNegative_Integer Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | 18446744073709551615 | The maximum value must be less than or equal to the equivalent integer value for 2^64-1 |

maximum_value in ASCII_Numeric_Base16

| Name: maximum_value | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Numeric_Base16 Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

maximum_value in ASCII_Numeric_Base2

| Name: maximum_value | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Numeric_Base2 Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

maximum_value in ASCII_Real

| Name: maximum_value | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | |

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Real | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1.7976931348623157e308 | The maximum value must be less than or equal to the equivalent floating point value for $(1 + (1 - 2^{**-52}) * 2^{**1023})$ | |

maximum_value in ASCII_Short_String_Collapsed

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_Short_String_Preserved

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_Text_Preserved

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_Time

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in ASCII_VID

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

maximum_value in Character_Data_Type

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |

| | | |
|----------------------------|----------------------------|---------------|
| Name: maximum_value | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

maximum_value in DD_Value_Domain

| | | | |
|---------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|------------------------------------|
| Name: maximum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Value_Domain | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_value in DD_Value_Domain_Full

| | | | |
|---------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|------------------------------------|
| Name: maximum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Value_Domain_Full | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_value in UTF8_Short_String_Collapsed

| | | | |
|---------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------|------------------------------------|
| Name: maximum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: UTF8_Short_String_Collapsed | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_value in UTF8_Short_String_Preserved

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: UTF8_Short_String_Preserved | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

maximum_value in UTF8_Text_Preserved

| Name: maximum_value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|------------------------------------|
| <i>Description:</i> The maximum_value attribute provides the upper, inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: UTF8_Text_Preserved | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

md5_checksum in Byte_Stream

| Name: md5_checksum | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|---------------------------------|
| <i>Description:</i> The md5_checksum attribute is the 32-character hexadecimal number computed using the MD5 algorithm for the contiguous bytes of single digital object (as stored) or for an entire file. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Byte_Stream | Type: ASCII_MD5_Checksum |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 32 | Maximum Characters: 32 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: [0-9a-fA-F]{32} | |
| Permissible Value(s) | No Values | | |

md5_checksum in File

| Name: md5_checksum | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The md5_checksum attribute is the 32-character hexadecimal number computed using the MD5 algorithm for the contiguous bytes of single digital object (as stored) or for an entire file. | | | |

| Name: md5_checksum | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> File | <i>Type:</i> ASCII_MD5_Checksum |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 32 | <i>Maximum Characters:</i> 32 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Checksum | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([a-f0-9]{32}) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

md5_checksum in Object_Statistics *Deprecated*

| Name: md5_checksum *Deprecated* | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|----------------------------------------|
| <i>Description:</i> The md5_checksum attribute is the 32-character hexadecimal number computed using the MD5 algorithm for the contiguous bytes of single digital object (as stored) or for an entire file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics | <i>Type:</i> ASCII_MD5_Checksum |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 32 | <i>Maximum Characters:</i> 32 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Checksum | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> ([a-f0-9]{32}) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

mean in Field_Statistics

| Name: mean | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------|---------------------------------|
| <i>Description:</i> The mean attribute provides the sum of the stored field values divided by the number of values in all records (empty fields and Special_Constants values are excluded from both the sum and the count). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Statistics | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e308 | <i>Maximum Value:</i> 1.7976931348623157e308 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

mean in Object_Statistics

| Name: mean | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The mean attribute provides the sum of the stored array element values (after application of any bit mask) divided by the number of elements (Special_Constants values are excluded from both the sum and the count). | | | |

| Name: mean | | | Version Id: 1.0.0.0 |
|-------------------------------------------------|------------------------------------------------|--------------------------------------|------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 087976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

median in Field_Statistics

| Name: median | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|------------------------------------|
| <i>Description:</i> The median attribute provides the number separating the larger half of stored field values from the algebraically smaller half over all records (empty fields and Special_Constants values are excluded from the sort). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Statistics | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 087976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

median in Object_Statistics

| Name: median | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------|------------------------------------|
| <i>Description:</i> The median attribute provides the number separating the larger half of stored array element values from the algebraically smaller half after application of any bit mask (Special_Constants values are excluded from the sort). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 087976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

medium_type in NSSDC

| Name: medium_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|-------------------------------------------|
| <i>Description:</i> The medium_type attribute identifies the physical storage medium for a data volume. <i>Examples:</i> CD-ROM, CARTRIDGE TAPE. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> NSSDC | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: medium_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

medium_type in Volume_PDS3

| Name: medium_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The medium_type attribute identifies the physical storage medium for a data volume. <i>Examples:</i> CD-ROM, CARTRIDGE TAPE. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

member_status in Bundle_Member_Entry

| Name: member_status | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The member_status attribute indicates whether the collection is primary and whether the file_specification_name has been provided for the product_collection label. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Bundle_Member_Entry | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Primary | The collection is a primary member of the bundle | |
| | Secondary | The collection is a secondary member of the bundle | |

minimum in Field_Statistics

| Name: minimum | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|----------------------------|
| <i>Description:</i> The minimum attribute provides the algebraically smallest stored value which appears in the field over all records (empty fields and Special_Constants values are excluded). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Statistics | <i>Type:</i> ASCII_Real |

| Name: minimum | | | Version Id: 1.0.0.0 |
|-------------------------------------------------|------------------------------------------------|-------------------------------------|------------------------------------|
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 087976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum in Object_Statistics

| Name: minimum | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------|------------------------------------|
| <i>Description:</i> The minimum attribute provides the algebraically smallest value which appears in the stored array after application of any bit mask (Special_Constants values are excluded). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 087976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_AnyURI

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_AnyURI | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_DOI

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_DOI | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |

| | | |
|---------------------------------|----------------------------|---------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

minimum_characters in ASCII_Date *Deprecated*

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|------------------------------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_characters in ASCII_Date_DOY

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_DOY | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_characters in ASCII_Date_Time *Deprecated*

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|------------------------------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |

| | | | |
|---------------------------------|-----------------|---------------|----------------------------|
| Name: minimum_characters | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_characters in ASCII_Date_Time_DOY

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|------------------------------------|
| Name: minimum_characters | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_DOY | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_characters in ASCII_Date_Time_UTC *Deprecated*

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------|------------------------------------|
| Name: minimum_characters | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_UTC *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_characters in ASCII_Date_Time_YMD

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------|------------------------------------|
| Name: minimum_characters | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_YMD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_Date_YMD

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_Directory_Path_Name

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Directory_Path_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Directory_Path_Name must have at least 1 character | |

minimum_characters in ASCII_File_Name

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_File_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_File_Name must have at least one character | |

minimum_characters in ASCII_File_Specification_Name

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_File_Specification_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_File_Specification_Name must have at least 1 character | |

minimum_characters in ASCII_Integer

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Integer | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_LID

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LID | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 13 | Values of ASCII_LID must have at least 13 characters | |

minimum_characters in ASCII_LIDVID

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 18 | Values of ASCII_LID must have at least 18 characters | |

minimum_characters in ASCII_LIDVID_LID

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 13 | Values of ASCII_LID must have at least 13 characters | |

minimum_characters in ASCII_Local_Identifier

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Local_Identifier | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Local_Identifier must have at least 1 character | |

minimum_characters in ASCII_Local_Identifier_Reference

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Local_Identifier_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Local_Identifier_Reference must have at least 1 character | |

minimum_characters in ASCII_MD5_Checksum

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_MD5_Checksum | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 32 | Values of ASCII_MD5_Checksum must have at least 32 characters | |

minimum_characters in ASCII_NonNegative_Integer

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_NonNegative_Integer | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_Numeric_Base16

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base16 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Numeric_Base16 must have at least 1 character | |

minimum_characters in ASCII_Numeric_Base2

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base2 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Numeric_Base2 must have at least 1 character | |

minimum_characters in ASCII_Numeric_Base8

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base8 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Numeric_Base8 must have at least 1 character | |

minimum_characters in ASCII_Real

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Real | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |

| | | |
|---------------------------------|----------------------------|---------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

minimum_characters in ASCII_Short_String_Collapsed

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------|------------------------------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Short_String_Collapsed | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | 1 | Values of ASCII_Short_String_Collapsed must have at least 1 character | |

minimum_characters in ASCII_Short_String_Preserved

| | | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------|------------------------------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Short_String_Preserved | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | 1 | Values of ASCII_Short_String_Preserved must have at least 1 character | |

minimum_characters in ASCII_String

| | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| Name: minimum_characters | Version Id: 1.0.0.0 | |
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_String |

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|--------------------------------------|------------------------------|-------------------------------------------------------|-------------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_String must have at least 1 character | |

minimum_characters in ASCII_Text_Collapsed

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Text_Collapsed must have at least 1 character | |

minimum_characters in ASCII_Text_Preserved

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1 | Values of ASCII_Text_Preserved must have at least 1 character | |

minimum_characters in ASCII_Time

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in ASCII_VID

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 3 | Values of ASCII_VID must have at least 3 characters | |

minimum_characters in Character_Data_Type

| Name: minimum_characters | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_characters in DD_Value_Domain

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

minimum_characters in DD_Value_Domain_Full

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

minimum_characters in UTF8_Short_String_Collapsed

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 1 | Values of UTF8_Short_String_Collapsed must have at least 1 character |

minimum_characters in UTF8_Short_String_Preserved

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 1 | Values of UTF8_Short_String_Preserved must have at least 1 character |

minimum_characters in UTF8_String

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_String |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 1 | Values of UTF8_String must have at least 1 character |

minimum_characters in UTF8_Text_Preserved

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| <i>Description:</i> The minimum_characters attribute provides the lower, inclusive bound on the number of characters. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |

| Name: minimum_characters | | Version Id: 1.0.0.0 |
|---------------------------------|--------------|--------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 1 | Values of UTF8_Text_Preserved must have at least 1 character |

minimum_occurrences in DD_Association

| Name: minimum_occurrences | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|
| <i>Description:</i> The minimum occurrences attribute indicates the number of times something may occur. It is also called the minimum cardinality. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

minimum_occurrences in DD_Association_External *Deprecated*

| Name: minimum_occurrences | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------|
| <i>Description:</i> The minimum occurrences attribute indicates the number of times something may occur. It is also called the minimum cardinality. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association_External *Deprecated* |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

minimum_scaled_value in Object_Statistics

| Name: minimum_scaled_value | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------|
| <i>Description:</i> The minimum_scaled_value attribute provides the minimum value after application of scaling_factor and value_offset (see their definitions; minimum_scaled_value is the minimum of Ov). | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Object_Statistics |
| <i>Minimum Value:</i> -1.7976931348623157e308 | <i>Maximum Value:</i> 1.7976931348623157e308 | <i>Minimum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number |
| | | <i>Conceptual Domain:</i> Real |

| | | | |
|-----------------------------------|-----------------|---------------|----------------------------|
| Name: minimum_scaled_value | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in ASCII_Date_Time *Deprecated*

| | | | |
|--------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------|------------------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in ASCII_Date_Time_DOY

| | | | |
|--------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|------------------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_DOY | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in ASCII_Date_Time_UTC *Deprecated*

| | | | |
|--------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------|------------------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_UTC *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |

| | |
|----------------------------|----------------------------|
| Name: minimum_value | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values |

minimum_value in ASCII_Date_Time_YMD

| | | | |
|--------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Name: minimum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_YMD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in ASCII_Integer

| | | | |
|--------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------|------------------------------------|
| Name: minimum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Integer | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | -9223372036854775808 | The minimum value must be greater than or equal to the equivalent integer value of -2^63 | |

minimum_value in ASCII_LID

| | | | |
|--------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------------------------|
| Name: minimum_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_LID | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in ASCII_NonNegative_Integer

| Name: minimum_value | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | 0 | The minimum value must be greater than or equal to zero. |

minimum_value in ASCII_Numeric_Base16

| Name: minimum_value | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base16 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

minimum_value in ASCII_Numeric_Base2

| Name: minimum_value | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base2 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

minimum_value in ASCII_Real

| Name: minimum_value | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | |

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Real | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | -1.7976931348623157e308 | The minimum value must be less than or equal to the equivalent floating point value for -(1 + (1 - 2**-52)) 2**1023 | |

minimum_value in ASCII_Short_String_Collapsed

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_value in ASCII_Short_String_Preserved

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_value in ASCII_Text_Preserved

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_value in ASCII_Time

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_value in ASCII_VID

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_value in Character_Data_Type

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |

| | | | |
|----------------------------|-----------------|---------------|----------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in DD_Value_Domain

| | | | |
|--------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|------------------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Value_Domain | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in DD_Value_Domain_Full

| | | | |
|--------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|------------------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Value_Domain_Full | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in UTF8_Short_String_Collapsed

| | | | |
|--------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|------------------------------------|
| Name: minimum_value | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: UTF8_Short_String_Collapsed | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

minimum_value in UTF8_Short_String_Preserved

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

minimum_value in UTF8_Text_Preserved

| Name: minimum_value | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The minimum_value attribute provides the lower inclusive bound on the value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

missing_constant in Special_Constants

| Name: missing_constant | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The missing_constant attribute provides a value that indicates the original value was missing, such as due to a gap in coverage. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Constant | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

mission_desc in Mission_PDS3

| <i>Name:</i> mission_desc | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The mission_desc attribute summarizes major aspects of a planetary mission or project, including the number and type of spacecraft, the target body or bodies and major accomplishments. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Mission_PDS3 | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

mission_name in Mission_PDS3

| <i>Name:</i> mission_name | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The mission_name attribute identifies a major planetary mission or project. A given planetary mission may be associated with one or more spacecraft. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Mission_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

mission_objectives_summary in Mission_PDS3

| <i>Name:</i> mission_objectives_summary | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-----------------------------------|
| <i>Description:</i> The mission_objectives_summary attribute describes the major scientific objectives of a planetary mission or project. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Mission_PDS3 | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Summary | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

mission_start_date in Mission_PDS3

| Name: mission_start_date | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The mission_start_date attribute provides the date of the beginning of a mission in UTC system format. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Mission_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

mission_stop_date in Mission_PDS3

| Name: mission_stop_date | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The mission_stop_date attribute provides the date of the end of a mission in UTC system format. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Mission_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

model_id in Instrument

| Name: model_id | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The model_id attribute helps discriminate instrument hardware. For example "flight", "engineering", or "proto" have been used. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

model_object_id in Property_Map

| Name: model_object_id | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The model_object_id attribute provides the unique identifier of a class, attribute, or value that is defined in the information model. | | | |

| Name: model_object_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

model_object_id in Terminological_Entry_SKOS

| Name: model_object_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The model_object_id attribute provides the unique identifier of a class, attribute, or value that is defined in the information model. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

model_object_type in Property_Map

| Name: model_object_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The model_object_type attribute provides a classification for a modeled object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

model_object_type in Terminological_Entry_SKOS

| Name: model_object_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The model_object_type attribute provides a classification for a modeled object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: model_object_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Attribute | The term is an alternate name for an attribute in the model. | |
| | Class | The term is an alternate name for a class in the model. | |
| | Keyword | The term is an alternate name for something in the model. | |
| | Nuance | The nuance adds meaning to something in the model. | |
| | Value | The term is an alternate for a value in the model. | |

modification_date in Modification_Detail

| Name: modification_date | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|---------------------------------|
| <i>Description:</i> The modification_date attribute provides date the modifications were completed | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Modification_Detail | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

naif_host_id in Instrument_Host

| Name: naif_host_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The naif_host_id element provides the numeric ID used within the SPICE system to identify the spacecraft, spacecraft structure or science instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

naif_instrument_id in Instrument

| Name: naif_instrument_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The naif_instrument_id element provides the numeric ID used within the SPICE system to identify the spacecraft, spacecraft structure or science instrument. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

name in Agency

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the Agency is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Agency | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | European Space Agency | The Agency has name European Space Agency | |
| | Japan Aerospace Exploration Agency | The Agency has name Japan Aerospace Exploration Agency | |
| | National Aeronautics and Space Administration | The Agency has name National Aeronautics and Space Administration | |
| | Roscosmos State Corporation for Space Activities | The Agency has name Roscosmos State Corporation for Space Activities | |

name in Airborne *Deprecated*

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|-------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Airborne *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Byte_Stream

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Byte_Stream | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in DD_Association_External *Deprecated*

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association_External *Deprecated* | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in DD_Attribute

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |

| | | |
|----------------------|----------------------------|---------------|
| Name: name | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

name in DD_Attribute_Full

| | | | |
|--------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|-----------------------------------|
| Name: name | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Attribute_Full | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in DD_Attribute_Reference

| | | | |
|--------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: name | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Attribute_Reference | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in DD_Class

| | | | |
|--------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|-----------------------------------|
| Name: name | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Class | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in DD_Class_Full

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in DD_Class_Reference

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in External_Reference_Extended

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> External_Reference_Extended | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Facility

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |

| Name: name | | | Version Id: 1.0.0.0 |
|----------------------------|-----------------------|-------------------------|-----------------------------------|
| Namespace Id: pds | Steward: pds | Class Name: Facility | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in Field

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in Field_Binary

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|-----------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Binary | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in Field_Bit

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Bit | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Field_Character

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Field_Delimited

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Group

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Ingest_LDD

| | | | |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| Name: name | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Ingest_LDD | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

name in Instrument

| | | | |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| Name: name | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

name in Instrument_Host

| | | | |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| Name: name | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

name in Investigation

| | | | |
|--------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| Name: name | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |

| Name: name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|----------------------------------|------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Investigation_Area

| Name: name | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation_Area | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |
| <i>Extended Value(s) for:</i> <i>pds:Product_Observational/pds:Observation_Area/pds:Investigation_Area</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | \$name | The value for name is to be provided by software during template processing. | |

name in Node

| Name: name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the Node is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Node | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Cartography and Imaging Sciences Discipline | The Node has name Cartography and Imaging Sciences Discipline | |
| | Engineering | The Node has name Engineering | |

| Name: name | | Version Id: 1.0.0.0 |
|-------------------|-----------------------------------------------|-----------------------------------------------------------------|
| | Geosciences | The Node has name Geosciences |
| | Imaging - *Deprecated* | The Node has name Imaging |
| | Management | The Node has name Management |
| | Navigation and Ancillary Information Facility | The Node has name Navigation and Ancillary Information Facility |
| | Planetary Atmospheres | The Node has name Planetary Atmospheres |
| | Planetary Plasma Interactions | The Node has name Planetary Plasma Interactions |
| | Planetary Rings - *Deprecated* | The Node has name Planetary Rings |
| | Planetary Science Archive | The Node has name Planetary Science Archive |
| | Radio Science | The Node has name Radio Science |
| | Ring-Moon Systems | The Node has name Ring-Moon Systems |
| | Small Bodies | The Node has name Small Bodies |

name in Observing_System

| Name: name | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Observing_System | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |
| <i>Extended Value(s) for:</i> <i>pds:Product_Observational/pds:Observation_Area/pds:Observing_System</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | \$name | The value for name is to be provided by software during template processing. | |

name in Observing_System_Component

| Name: name | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Observing_System_Component |
| | | <i>Type:</i> UTF8_Short_String_Collapsed |

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |
| <i>Extended Value(s) for:</i> <i>pds:Product_Observational/pds:Observation_Area/pds:Observing_System/pds:Observing_System_Component</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | \$name | The value for name is to be provided by software during template processing. | |

name in PDS_Affiliate

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in PDS_Guest

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Guest | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Quaternion

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternion | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Quaternion_Component

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternion_Component | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Resource

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Resource | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Service

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |

| Name: name | | | Version Id: 1.0.0.0 |
|----------------------------|-----------------------|-------------------------|------------------------------------|
| Namespace Id: pds | Steward: ops | Class Name: Service | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in Software

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Software | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in Target

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Target | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

name in Target_Identification

| Name: name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|-----------------------------------|
| <i>Description:</i> The name attribute provides a human-readable primary name/identification in the standard format for the target type. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Target_Identification | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |
| <i>Extended Value(s) for:</i> <i>pds:Product_Observational/pds:Observation_Area/pds:Target_Identification</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | \$name | The value for name is to be provided by software during template processing. | |

name in Terminological_Entry

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Terminological_Entry | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Vector

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

name in Vector_Component

| Name: name | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|------------------------------------------|
| <i>Description:</i> The name attribute provides a word or combination of words by which the object is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Component | <i>Type:</i> UTF8_Short_String_Collapsed |

| Name: name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

namespace_id in DD_Association_External *Deprecated*

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Association_External *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

namespace_id in DD_Attribute_Full

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

namespace_id in DD_Attribute_Reference

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|-------------------------------------------|
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

namespace_id in DD_Class_Full

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

namespace_id in DD_Class_Reference

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

namespace_id in Ingest_LDD

| Name: namespace_id | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Ingest_LDD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| | | |
|---------------------------|-----------|----------------------------|
| Name: namespace_id | | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values | |

namespace_id in Property_Maps

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|------------------------------------|
| Name: namespace_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Property_Maps | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

namespace_id in Terminological_Entry_SKOS

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|------------------------------------|
| Name: namespace_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The namespace_id attribute provides the abbreviation of the XML schema namespace container for this logical grouping of classes and attributes. It is assigned by the steward. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Terminological_Entry_SKOS | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

nil_reason in Symbolic_Literals_PDS

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|------------------------------------|
| Name: nil_reason | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The nil_reason attribute provides the permissible values allowed as reasons when an attribute assigned a nil value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Symbolic_Literals_PDS | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | anticipated | The value is temporarily not available. | |

| Name: nil_reason | | Version Id: 1.0.0.0 |
|-------------------------|--------------|--------------------------------------------------------------------------------------------------------------------|
| | inapplicable | There is no value. |
| | missing | The correct value is not readily available to the sender of this data. However, a correct value probably exists. |
| | unknown | The correct value is not readily available to the sender of this data. Furthermore, a correct value may not exist. |

nillable_flag in DD_Attribute

| Name: nillable_flag | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|----------------------------|
| <i>Description:</i> The nillable_flag attribute indicates whether an attribute is allowed to take on nil as a value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Attribute | Type: ASCII_Boolean |
| Minimum Value: None | Maximum Value: None | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Flag | Conceptual Domain: Boolean |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

nillable_flag in DD_Attribute_Full

| Name: nillable_flag | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|----------------------------|
| <i>Description:</i> The nillable_flag attribute indicates whether an attribute is allowed to take on nil as a value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Attribute_Full | Type: ASCII_Boolean |
| Minimum Value: None | Maximum Value: None | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Flag | Conceptual Domain: Boolean |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

not_applicable_constant in Special_Constants

| Name: not_applicable_constant | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------|
| <i>Description:</i> The not_applicable_constant attribute provides a value that indicates the parameter is not applicable. | | |
| Namespace Id: pds | Steward: pds | Class Name: Special_Constants |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |

| Name: not_applicable_constant | | | Version Id: 1.0.0.0 |
|--------------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Constant | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

nssdc_collection_id in NSSDC

| Name: nssdc_collection_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> An NSSDC Collection ID is an NSSDC assigned identifier for a collection of PDS datasets. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> NSSDC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

object_length in Encoded_Byte_Stream

| Name: object_length | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|----------------------------------------|
| <i>Description:</i> The object_length attribute provides the length of the digital object in bytes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Byte_Stream | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

object_length in Header

| Name: object_length | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|
| <i>Description:</i> The object_length attribute provides the length of the digital object in bytes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Header | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

object_length in Parsable_Byte_Stream

| Name: object_length | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|----------------------------------------|
| <i>Description:</i> The object_length attribute provides the length of the digital object in bytes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Parsable_Byte_Stream | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

offset in Array

| Name: offset | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|
| <i>Description:</i> The offset attribute provides the displacement of the object starting position from the beginning of the parent structure (file, record, etc.). If there is no displacement, offset=0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Array | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

offset in Encoded_Byte_Stream

| Name: offset | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|----------------------------------------|
| <i>Description:</i> The offset attribute provides the displacement of the object starting position from the beginning of the parent structure (file, record, etc.). If there is no displacement, offset=0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Encoded_Byte_Stream | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

offset in Parsable_Byte_Stream

| Name: offset | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The offset attribute provides the displacement of the object starting position from the beginning of the parent structure (file, record, etc.). If there is no displacement, offset=0. | | | |

| Name: offset | | | Version Id: 1.0.0.0 |
|-----------------------------------------------|--------------------------------------------|-----------------------------------------|----------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Parsable_Byte_Stream | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

offset in Table_Base

| Name: offset | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|
| <i>Description:</i> The offset attribute provides the displacement of the object starting position from the beginning of the parent structure (file, record, etc.). If there is no displacement, offset=0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Base | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

orbit_direction in Target_PDS3

| Name: orbit_direction | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The orbit_direction element provides the direction of movement along the orbit about the primary as seen from the north pole of the 'invariable plane of the solar system', which is the plane passing through the center of mass of the solar system and perpendicular to the angular momentum vector of the solar system orbit motion. PROGRADE for positive rotation according to the right-hand rule, RETROGRADE for negative rotation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Target_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Direction | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

original_band in Band_Bin *Deprecated*

| Name: original_band | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The original_band attribute of a spectral qube provides the sequence of band numbers in the qube relative to some original qube. In the original qube, the values are just consecutive integers beginning with 1. In a qube which contains a subset of the bands in the original qube, the values are the original sequence numbers from that qube. | | | |

| Name: original_band | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------|----------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 512 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

os_version in Software_Binary

| Name: os_version | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The OS version attribute indicates the version of an operating system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Binary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

os_version in Software_Source

| Name: os_version | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The OS version attribute indicates the version of an operating system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

parsing_standard_id in Checksum_Manifest

| Name: parsing_standard_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Checksum_Manifest | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |

| Name: parsing_standard_id | | Version Id: 1.0.0.0 |
|----------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | MD5Deep 4.n | The checksum manifest is governed by the Message-Digest Algorithm (MD5) output of the MD5 Deep Package Version 4.n (see http://md5deep.sourceforge.net/). |

parsing_standard_id in Header

| Name: parsing_standard_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Header | |
| <i>Type:</i> ASCII_Short_String_Collapsed | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 7-Bit ASCII Text | The Header contains simple text using only the 7-Bit ASCII character set. ANSI X3.4-1986. | |
| | CDF 3.4 ISTP/IACG | The Header is governed by Version 3.4 of the CDF format specification, the ISTP/IACG guidelines and PDS constraints. | |
| | FITS 3.0 | The Header is governed by the standard Flexible Image Transport System (FITS), Version 3.0. | |
| | ISIS2 | The Header is governed by the standard Integrated Software for Imagers and Spectrometers (ISIS), USGS Astrogeology Isis Cube, Version 2. | |
| | ISIS2 History Label | An ISIS history label contains text information that records the sequence of processing operations that created an ISIS file. A description of the format of the label is available in section 5.2 of the ISIS2 Overview documentation. | |
| | ISIS3 | The Header is governed by the standard Integrated Software for Imagers and Spectrometers (ISIS), USGS Astrogeology ISIS Cube, Version 3. | |
| | PDS DSV 1 | The format is delimiter separated value (DSV); see Standards Reference section 4C.1. | |
| | PDS ODL 2 | The Header is governed by the standard Planetary Data System (PDS) Object Description Language (ODL), Version 2.n. | |
| | PDS3 | The Header is governed by the Planetary Data System (PDS) Data Standards Version 3.n. | |

| Name: parsing_standard_id | | Version Id: 1.0.0.0 |
|----------------------------------|------------|--------------------------------------------------------------------------------------------|
| | Pre-PDS3 | The Header is governed by Planetary Data System (PDS) Data Standards prior to Version 3.0. |
| | UTF-8 Text | The Header contains simple text using UTF-8 Unicode character encodings. RFC 3629. |
| | VICAR1 | The Header is governed by the standard Video Image Communication And Retrieval (VICAR). |
| | VICAR2 | The Header is governed by the standard Video Image Communication And Retrieval (VICAR). |

parsing_standard_id in Parsable_Byte_Stream

| Name: parsing_standard_id | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Parsable_Byte_Stream |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

parsing_standard_id in SPICE_Kernel

| Name: parsing_standard_id | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> SPICE_Kernel |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | SPICE | The SPICE_Kernel conforms to standards used within the NAIF/SPICE system of data files (kernels) and software; see http://naif.jpl.nasa.gov/pub/naif/toolkit_docs/Tutorials/pdf/individual_docs/04_spice_overview.pdf |

parsing_standard_id in Service_Description

| Name: parsing_standard_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service_Description | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | WADL | The service is governed by the standard Web Application Description Language (WADL). | |
| | WSDL 2.n | The service is governed by the standard Web Services Description Language (WSDL) Version 2.n. | |

parsing_standard_id in Stream_Text

| Name: parsing_standard_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Stream_Text | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 7-Bit ASCII Text | The Stream Text contains simple text using only the 7-Bit ASCII character set. ANSI X3.4-1986. | |
| | PDS3 | PDS3 - The text object is governed by the Planetary Data System (PDS) Data Standards Version 3.n. | |
| | UTF-8 Text | The Stream Text contains simple text using UTF-8 Unicode character encodings. RFC 3629. | |

parsing_standard_id in Table_Delimited

| Name: parsing_standard_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Delimited | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: parsing_standard_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | PDS DSV 1 | The table format conforms to the PDS4 Standards Reference section "Parsable Bytes Stream" | |

parsing_standard_id in XML_Schema

| Name: parsing_standard_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The parsing_standard_id attribute provides the formal name of a standard used for the structure of a Parsable Byte Stream digital object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> XML_Schema | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Schematron ISO/IEC 19757-3:2006 | Schematron files are governed by the standard for Schematron (see http://www.iso.org/iso/catalogue_detail.htm?csnumber=40833) | |
| | XML Schema Version 1.1 | XML_Schema is governed by the standard for XML Schema 1.1 (see http://www.w3.org/XML/Schema) | |

pattern in ASCII_BibCode

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_BibCode | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | [0-9]{4}[A-Za-z0-9&\.]{5}[A-Za-z0-9\.]{9}[A-Z\.] | | |

pattern in ASCII_DOI

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_DOI | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 10\.\S+/\S+ | The Digital Object Identifier (DOI) is expressed as the decimal number "10." followed by a character string followed by a forward slash "/" followed by another character string. The format and its use are specified by the International DOI Federation (see http://www.doi.org). | |

pattern in ASCII_Date *Deprecated*

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (-)?[0-9]{4} | | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6])))) | | |
| | (-)?[0-9]{4}-((0[1-9]) (1[0-2])) | | |
| | (-)?[0-9]{4}-((0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) | | |

pattern in ASCII_Date_DOY

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|---------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (-)?[0-9]{4}(Z?) | See the respective formation rule for the value meaning. | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(Z?) | | |

pattern in ASCII_Date_Time *Deprecated*

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (-)?[0-9]{4} | | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6])))) | | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(T) (0-1)[0-9])(2[0-3]):[0-5][0-9](Z)? | | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(T) (0-1)[0-9])(2[0-3]):[0-5][0-9]:([0-5][0-9] 60)(.[0-9]{1,4}))?(Z)? | | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(T) | | |

| Name: pattern | | Version Id: 1.0.0.0 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| | (([0-1][0-9])(2[0-4]))(Z)? | |
| | (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6]))) (T)24:00(:00((.0+)?))?(Z)? | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])) | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z)? | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]: (([0-5][0-9]) (60)(.[0-9]{1,4}))?(Z)? | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)(([0-1][0-9]) (2[0-4]))(Z)? | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)24:00(:00((.0+)?))?(Z)? | |

pattern in ASCII_Date_Time_DOY

| Name: pattern | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (-)?[0-9]{4}(Z?) | See the respective formation rule for the value meaning. | |

| Name: pattern | | Version Id: 1.0.0.0 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2] [0-9][0-9]) (3(([0-5] [0-9]) (6[0-6]))))(T) (([0-1][0-9]) (2[0-3])): [0-5][0-9](Z?) | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2] [0-9][0-9]) (3(([0-5] [0-9]) (6[0-6]))))(T) (([0-1][0-9]) (2[0-3])): [0-5][0-9]:(([0-5][0-9]) 60)(.(.[0-9]{1,6}))?(Z?) | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2] [0-9][0-9]) (3(([0-5] [0-9]) (6[0-6]))))(T) (([0-1][0-9]) (2[0-4])) (Z?) | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2] [0-9][0-9]) (3(([0-5] [0-9]) (6[0-6])))) (T)24((.:00) (.:00:00))? (Z?) | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2] [0-9][0-9]) (3(([0-5] [0-9]) (6[0-6])))) (T)24:00:00(.(.[0] {1,6}))(Z?) | |
| | (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2] [0-9][0-9]) (3(([0-5] [0-9]) (6[0-6]))))(Z?) | |

pattern in ASCII_Date_Time_DOY_UTC

| Name: pattern | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY_UTC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (-)?[0-9]{4}(Z) | | |

| Name: pattern | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9](Z) | |
| (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9]:(([0-5][0-9]) 60)(.[{0-9}{1,6}])?(Z) | |
| (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-4]))(Z) | |
| (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9])(6[0-6])))(T)24((::00)(::00:00))?(Z) | |
| (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9])(6[0-6])))(T)24:00:00(.[{0}{1,6}])?(Z) | |
| (-)?[0-9]{4}-(00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9])(6[0-6])))(Z) | |

pattern in ASCII_Date_Time_UTC *Deprecated*

| Name: pattern | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------|------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_UTC *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Pattern | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |

| Name: pattern | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| (-)?[0-9]{4}(Z) | |
| (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(T)(([[0-1][0-9]]) (2[0-3])):[0-5][0-9](Z) | |
| (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(T)(([[0-1][0-9]]) (2[0-3])):[0-5][0-9]:(([0-5][0-9]) (60)(\.(0-9){1,4}))?(Z) | |
| (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(T)(([[0-1][0-9]]) (2[0-4]))(Z) | |
| (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))((T)24:00(:00(\.(0+)?))?)?(Z) | |
| (-)?[0-9]{4}-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6]))))(Z) | |
| (-)?[0-9]{4}-((0[1-9]) (1[0-2]))(Z) | |
| (-)?[0-9]{4}-((0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1]))((T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z)) | |
| (-)?[0-9]{4}-((0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1]))((T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]:(([0-5][0-9]) (60)(\.(0-9){1,4}))?(Z)) | |
| (-)?[0-9]{4}-((0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1]))((T)(([0-1][0-9]) (2[0-4])))(Z) | |
| (-)?[0-9]{4}-((0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) | |

| Name: pattern | | Version Id: 1.0.0.0 |
|---------------|------------------------------------------------------------------------------|---------------------|
| | (T)24:00((::00((.0+)?))?) (Z) | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (Z) | |

pattern in ASCII_Date_Time_YMD

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_YMD | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Pattern | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | (-)?[0-9]{4}(Z?) | See the respective formation rule for the value meaning. | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])(Z?) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)((0-1)[0-9]) (2[0-3])(Z?) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)((0-1)[0-9]) (2[0-3]):[0-5][0-9](Z?) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)((0-1)[0-9]) (2[0-3]):[0-5][0-9]: (([0-5][0-9]) 60) \. ([0-9]{1,6}))?(Z?) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)24((::00) (::00:00))? (Z?) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)24:00:00(\.(0) {1,6}))(Z?) | | |

| Name: pattern | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------|---------------------|
| (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (Z?) | |

pattern in ASCII_Date_Time_YMD_UTC

| Name: pattern | Version Id: 1.0.0.0 | | |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Date_Time_YMD_UTC | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | (-)?[0-9]{4}(Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])(Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)(([0-1][0-9]) (2[0-3]))(Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]: (([0-5][0-9]) 60)(^. ([0-9]{1,6}))?(Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)24(:00)(:00:00))? (Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1])) (T)24:00:00(^([0] {1,6}))(Z) | | |
| | (-)?[0-9]{4}-(0[1-9]) (1[0-2])-((0[1-9]) | | |

| | | |
|----------------------|-------------------------------|----------------------------|
| Name: pattern | | Version Id: 1.0.0.0 |
| | ([1-2][0-9]) (3[0-1])) (Z) | |

pattern in ASCII_Date_YMD

| | | | |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------|
| Name: pattern | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (-)?[0-9]{4}(Z?) | See the respective formation rule for the value meaning. | |
| | (-)?[0-9]{4}-((0[1-9]) (1[0-2]))(Z?) | | |
| | (-)?[0-9]{4}-((0[1-9]) (1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1]))(Z?) | | |

pattern in ASCII_LID

| | | | |
|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| Name: pattern | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

pattern in ASCII_MD5_Checksum

| | | | |
|-----------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| Name: pattern | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_MD5_Checksum | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |

| Name: pattern | | | Version Id: 1.0.0.0 |
|----------------------|-----------------|----------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | [0-9a-fA-F]{32} | See the respective formation rule for the value meaning. | |

pattern in ASCII_NonNegative_Integer

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_NonNegative_Integer | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | [0-9]+ | | |

pattern in ASCII_Numeric_Base16

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|-----------------------|----------------------------------|------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Numeric_Base16 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Pattern | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

pattern in ASCII_Numeric_Base2

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|-----------------------|---------------------------------|------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Numeric_Base2 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Pattern | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |

| Name: pattern | | Version Id: 1.0.0.0 |
|----------------------|--------------|-----------------------------------------------------------------------------------------------------|
| | [0-1]{1,255} | Values of ASCII_Numeric_Base2 are constructed from 1-255 characters, each of which is either 0 or 1 |

pattern in ASCII_Numeric_Base8

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base8 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | [0-7]{1,255} | Values of ASCII_Numeric_Base8 are constructed from 1-255 characters, each of which is a digit in the range 0-7 | |

pattern in ASCII_Real

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Real | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | (\+ -)?([0-9]+\(\.[0-9]*\)? \.[0-9]+)([Ee](\+ -)?[0-9]+)? | | |
| | [^aFIN,]* | | |

pattern in ASCII_Time

| Name: pattern | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------|----------------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ((([0-1][0-9])(2[0-3])):[0-5][0-9](Z?)) | See the respective formation rule for the value meaning. | |
| | ((([0-1][0-9])(2[0-3])):[0-5][0-9]:(([0-5][0-9]) 60)(.[0-9]+))(Z?) | | |
| | ((([0-1][0-9])(2[0-4]))(Z?)) | | |
| | 24:00((:00((.0+))))(Z?) | | |

pattern in ASCII_VID

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 0\.(1-9)([0-9][0-9]+)) | See the respective formation rule for the value meaning. | |
| | [1-9][0-9]* | | |
| | [1-9][0-9]*\.[0-9]+ | | |

pattern in Character_Data_Type

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Character_Data_Type | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

pattern in DD_Value_Domain

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

pattern in DD_Value_Domain_Full

| Name: pattern | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The pattern attribute provides a symbolic instruction for forming values. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Pattern | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

phone_book_flag in PDS_Affiliate

| Name: phone_book_flag | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------|
| <i>Description:</i> The phone_book_flag attribute indicates whether or not this person should be included in the phone book. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Boolean |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Flag | <i>Conceptual Domain:</i> Boolean |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

postal_address_text in PDS_Affiliate

| Name: postal_address_text | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------|---------------------|----------------------------------|-----------------------------------|
| <i>Description:</i> The postal address text attribute provides a mailing address. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Text_Preserved |

| Name: postal_address_text | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|---------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

preferred_flag in Terminological_Entry

| Name: preferred_flag | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-----------------------------------|
| <i>Description:</i> The preferred_flag indicates whether this entry is preferred over all other entries. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry | <i>Type:</i> ASCII_Boolean |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Flag | <i>Conceptual Domain:</i> Boolean |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

primary_body_name in Target_PDS3

| Name: primary_body_name | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The primary_body_name attribute identifies the primary body with which a given target body is associated as a secondary body. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Target_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

processing_level in Primary_Result_Summary

| Name: processing_level | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------|-------------------------------------------|
| <i>Description:</i> The processing_level attribute provides a broad classification of data processing level. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Primary_Result_Summary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |

| Name: processing_level | | Version Id: 1.0.0.0 |
|-------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | Calibrated | Data converted to physical units, which makes values independent of the instrument. |
| | Derived | Results that have been distilled from one or more calibrated data products (for example, maps, gravity or magnetic fields, or ring particle size distributions). Supplementary data, such as calibration tables or tables of viewing geometry, used to interpret observational data should also be classified as 'derived' data if not easily matched to one of the other three categories. |
| | Partially Processed | Data that have been processed beyond the raw stage but which have not yet reached calibrated status. |
| | Raw | Original data from an instrument. If compression, reformatting, packetization, or other translation has been applied to facilitate data transmission or storage, those processes will be reversed so that the archived data are in a PDS approved archive format. |
| | Telemetry | An encoded byte stream used to transfer data from one or more instruments to temporary storage where the raw instrument data will be extracted. |

processing_level_id in Primary_Result_Summary *Deprecated*

| Name: processing_level_id *Deprecated* | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The processing_level_id attribute provides a broad indication of data processing level. | | |
| Namespace Id: pds | Steward: pds | Class Name: Primary_Result_Summary |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID |
| Status: Deprecated | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | Calibrated | Data converted to physical units, which makes values independent of the instrument. |
| | Derived | Results that have been distilled from one or more calibrated data products (for example, maps, gravity or magnetic fields, or ring particle size distributions). Supplementary data, such as calibration tables or tables of viewing geometry, used to interpret observational data should also be classified as 'derived' data if not easily |

| Name: processing_level_id *Deprecated* | | Version Id: 1.0.0.0 |
|-----------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | matched to one of the other three non-telemetry categories. |
| | Partially Processed | Data that have been processed beyond the raw stage but which have not yet reached calibrated status. |
| | Raw | Original data from an instrument. If compression, reformatting, packetization, or other translation has been applied to facilitate data transmission or storage, those processes will be reversed so that the archived data are in a PDS approved archive format. |
| | Telemetry | An encoded byte stream used to transfer data from one or more instruments to temporary storage where the raw instrument data will be extracted. |

producer_full_name in Data_Set_PDS3

| Name: producer_full_name | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The producer_full_name attribute provides the full_name of the individual mainly responsible for the production of the data set. This individual does not have to be registered with the PDS. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

product_class in Identification_Area

| Name: product_class | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The product_class attribute provides the name of the product class. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Identification_Area | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | Product_AIP | This is a product that is described by the class definition Product_AIP | |
| | Product_Ancillary | This is a product that is described by the class definition Product_Ancillary | |

| Name: product_class | | Version Id: 1.0.0.0 |
|----------------------------|-------------------------------|-------------------------------------------------------------------------------------------|
| | Product_Attribute_Definition | This is a product that is described by the class definition Product_Attribute_Definition |
| | Product_Browse | This is a product that is described by the class definition Product_Browse |
| | Product_Bundle | This is a product that is described by the class definition Product_Bundle |
| | Product_Class_Definition | This is a product that is described by the class definition Product_Class_Definition |
| | Product_Collection | This is a product that is described by the class definition Product_Collection |
| | Product_Context | This is a product that is described by the class definition Product_Context |
| | Product_DIP | This is a product that is described by the class definition Product_DIP |
| | Product_DIP_Deep_Archive | This is a product that is described by the class definition Product_DIP_Deep_Archive |
| | Product_Data_Set_PDS3 | This is a product that is described by the class definition Product_Data_Set_PDS3 |
| | Product_Document | This is a product that is described by the class definition Product_Document |
| | Product_File_Repository | This is a product that is described by the class definition Product_File_Repository |
| | Product_File_Text | This is a product that is described by the class definition Product_File_Text |
| | Product_Instrument_Host_PDS3 | This is a product that is described by the class definition Product_Instrument_Host_PDS3 |
| | Product_Instrument_PDS3 | This is a product that is described by the class definition Product_Instrument_PDS3 |
| | Product_Metadata_Supplemental | This is a product that is described by the class definition Product_Metadata_Supplemental |
| | Product_Mission_PDS3 | This is a product that is described by the class definition Product_Mission_PDS3 |
| | Product_Native | This is a product that is described by the class definition Product_Native |
| | Product_Observational | This is a product that is described by the class definition Product_Observational |
| | Product_Proxy_PDS3 | This is a product that is described by the class definition Product_Proxy_PDS3 |
| | Product_SIP | This is a product that is described by the class definition Product_SIP |
| | Product_SIP_Deep_Archive | This is a product that is described by the class definition Product_SIP_Deep_Archive |
| | Product_SPICE_Kernel | This is a product that is described by the class definition Product_SPICE_Kernel |
| | Product_Service | This is a product that is described by the class definition Product_Service |

| Name: product_class | | Version Id: 1.0.0.0 |
|----------------------------|---------------------------|---------------------------------------------------------------------------------------|
| | Product_Software | This is a product that is described by the class definition Product_Software |
| | Product_Subscription_PDS3 | This is a product that is described by the class definition Product_Subscription_PDS3 |
| | Product_Target_PDS3 | This is a product that is described by the class definition Product_Target_PDS3 |
| | Product_Thumbnail | This is a product that is described by the class definition Product_Thumbnail |
| | Product_Update | This is a product that is described by the class definition Product_Update |
| | Product_Volume_PDS3 | This is a product that is described by the class definition Product_Volume_PDS3 |
| | Product_Volume_Set_PDS3 | This is a product that is described by the class definition Product_Volume_Set_PDS3 |
| | Product_XML_Schema | This is a product that is described by the class definition Product_XML_Schema |
| | Product_Zipped | This is a product that is described by the class definition Product_Zipped |

program_notes_id in Software_Binary

| Name: program_notes_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The program notes id attribute provides an identifier to a brief statement giving particulars about a software program. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Binary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

program_notes_id in Software_Source

| Name: program_notes_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The program notes id attribute provides an identifier to a brief statement giving particulars about a software program. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

programmers_manual_id in Software

| Name: programmers_manual_id | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The programmers manual id attribute provides an identifier to a document giving instruction about the programming of the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

property_map_subtype in Property_Map_Entry

| Name: property_map_subtype | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The property_map_subtype attribute indicates the subcategory of the property map. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map_Entry | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

property_map_type in Property_Map_Entry

| Name: property_map_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The property_map_type attribute indicates the category of the property map. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map_Entry | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | <i>Nuance</i> | A subtle difference or distinction in meaning of a defined attribute. | |
| | <i>Query Model</i> | A list of defined attributes to be used for a specific query. | |
| | <i>Rationale</i> | A statement of reasons about the definition of an attribute. | |

| Name: property_map_type | | Version Id: 1.0.0.0 |
|--------------------------------|-------------------|---------------------------------------------------------------------------------------|
| | Synonym | An attribute in an external standard that has the same or nearly the same meaning. |
| | Velocity Variable | A list of defined attributes to have values provided during product label generation. |

property_name in Property_Map_Entry

| Name: property_name | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-------------------------------------------|
| <i>Description:</i> The property name attribute provides a word or a combination of words by which a property is known. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map_Entry | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

property_value in Property_Map_Entry

| Name: property_value | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The property value attribute provides the value assigned to a property. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map_Entry | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

provider_site_id in SIP_Deep_Archive

| Name: provider_site_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The provider site id attribute provides an identifier for the provider. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> SIP_Deep_Archive | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | PDS_ATM | Planetary Data System: Atmospheres Node | |

| Name: provider_site_id | | Version Id: 1.0.0.0 |
|-------------------------------|---------|----------------------------------------------------------------------------|
| | PDS_ENG | Planetary Data System: Engineering Node |
| | PDS_GEO | Planetary Data System: Geosciences Node |
| | PDS_IMG | Planetary Data System: Imaging Node at USGS |
| | PDS_JPL | Planetary Data System: Imaging Subnode at JPL |
| | PDS_NAI | Planetary Data System: NAIF Node |
| | PDS_PPI | Planetary Data System: Planetary Plasma Interactions Node |
| | PDS_PSI | Planetary Data System: Small Bodies Subnode at Planetary Science Institute |
| | PDS_RNG | Planetary Data System: Rings Node |
| | PDS_SBN | Planetary Data System: Small Bodies Node at University of Maryland |

publication_date in Document

| Name: publication_date | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|---------------------------------|
| <i>Description:</i> The publication_date attribute provides the date on which an item was published. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

publication_date in Volume_PDS3

| Name: publication_date | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|---------------------------------|
| <i>Description:</i> The publication_date attribute provides the date on which an item was published. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

publication_year in Citation_Information

| Name: publication_year | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The publication_year attribute provides the year in which the product should be considered as published. Generally, this will be the year the data were declared "Certified" or "Archived". | | |

| Name: publication_year | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------|---------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Citation_Information | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

purpose in Primary_Result_Summary

| Name: purpose | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The purpose attribute provides an indication of the primary purpose of the observations included. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Primary_Result_Summary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Calibration | Data collected to determine the relationship between measurement values and physical units. | |
| | Checkout | Data collected during operational tests | |
| | Engineering | Data collected about support systems and structures, which are ancillary to the primary measurements. | |
| | Navigation | Data collected to support navigation | |
| | Observation Geometry | Data used to compute instrument observation geometry, such as SPICE kernels. | |
| | Science | Data collected primarily to answer questions about the targets of the investigation. | |

record_delimiter in Checksum_Manifest

| Name: record_delimiter | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The record_delimiter attribute provides the character or characters used to indicate the end of a record. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Checksum_Manifest | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: record_delimiter | | Version Id: 1.0.0.0 |
|-------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Carriage-Return Line-Feed | Records in the Checksum Manifest are delimited by ASCII carriage-return line-feed pairs (0x0D_0xA) |
| | carriage-return line-feed - *Deprecated* | Records in the Checksum Manifest are delimited by ASCII carriage-return line-feed pairs (0x0D0xA) |

record_delimiter in Stream_Text

| Name: record_delimiter | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|
| <i>Description:</i> The record_delimiter attribute provides the character or characters used to indicate the end of a record. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Stream_Text |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Delimiter |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Carriage-Return Line-Feed | Records in the Stream Text are delimited by ASCII carriage-return line-feed pairs (0x0D_0xA) |
| | carriage-return line-feed - *Deprecated* | Records in the stream text are delimited by ASCII carriage-return line-feed pairs (0x0D0xA) |

record_delimiter in Table_Binary *Deprecated*

| Name: record_delimiter *Deprecated* | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|
| <i>Description:</i> The record_delimiter attribute provides the character or characters used to indicate the end of a record. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Binary |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Delimiter |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

record_delimiter in Table_Character

| Name: record_delimiter | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The record_delimiter attribute provides the character or characters used to indicate the end of a record. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Character | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Delimiter | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Carriage-Return Line-Feed | Records in the delimited table are delimited by ASCII carriage-return line-feed pairs (0x0D_0xA) | |
| | carriage-return line-feed - *Deprecated* | Records in the character table are delimited by ASCII carriage-return line-feed pairs (0x0D0x0A) | |

record_delimiter in Table_Delimited

| Name: record_delimiter | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The record_delimiter attribute provides the character or characters used to indicate the end of a record. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Delimited | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Delimiter | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Carriage-Return Line-Feed | Records in the delimited table are delimited by ASCII carriage-return line-feed pairs (0x0D_0xA) | |
| | carriage-return line-feed - *Deprecated* | Records in the delimited table are delimited by ASCII carriage-return line-feed pairs (0x0D0x0A) | |

record_length in Record_Binary

| Name: record_length | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|----------------------------------------|
| <i>Description:</i> The record_length attribute provides the length of a record, including a record delimiter, if present. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Record_Binary | <i>Type:</i> ASCII_NonNegative_Integer |

| Name: record_length | | | Version Id: 1.0.0.0 |
|-----------------------------------------------|--------------------------------------------|----------------------------------|-----------------------------------|
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | No Values | | |

record_length in Record_Character

| Name: record_length | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| <i>Description:</i> The record_length attribute provides the length of a record, including the record delimiter. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Record_Character | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Storage | <i>Default Unit Id:</i> byte | <i>Attribute Concept:</i> Length | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | No Values | | |

records in File

| Name: records | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The records attribute provides a count of records. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> File | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | No Values | | |

records in Table_Base

| Name: records | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The records attribute provides a count of records. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Table_Base | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |

| | | |
|----------------------|-----------|----------------------------|
| Name: records | | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values | |

records in Table_Delimited

| | | | |
|------------------------------------------------------------------------|-------------------------------------|-----------------------------|---------------------------------|
| Name: records | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The records attribute provides a count of records. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Table_Delimited | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Count | Conceptual Domain: Integer |
| Status: Active | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

reference_frame_id in Vector

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|------------------------------------|
| Name: reference_frame_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The reference frame id attribute identifies a reference frame, an origin and set of axes, the physical realization of a reference system, i.e., the reference frame orientation and axes are established by the reported coordinates of datum points in the reference system. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Vector | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: true | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | ICRF | International celestial reference frame | |
| | MOON_ME_DE421 | Moon mean Earth based on JPL DE421 | |

reference_frame_id in Vector_Cartesian_3

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|------------------------------------|
| Name: reference_frame_id | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The reference frame id attribute identifies a reference frame, an origin and set of axes, the physical realization of a reference system, i.e., the reference frame orientation and axes are established by the reported coordinates of datum points in the reference system. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Vector_Cartesian_3 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |

| Name: reference_frame_id | | | Version Id: 1.0.0.0 |
|---------------------------------|---------------|-----------------------------------------|----------------------------|
| | ICRF | International celestial reference frame | |
| | MOON_ME_DE421 | Moon mean Earth based on JPL DE421 | |

reference_text in External_Reference

| Name: reference_text | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The reference_text attribute provides a complete bibliographic citation for a published work. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> External_Reference | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

reference_type in Bundle_Member_Entry

| Name: reference_type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Bundle_Member_Entry | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | bundle_has_browse_collection | The bundle has a browse collection member | |
| | bundle_has_calibration_collection | The bundle has a calibration collection member | |
| | bundle_has_context_collection | The bundle has a context collection member | |
| | bundle_has_data_collection | The bundle has a data collection member | |
| | bundle_has_document_collection | The bundle has a document collection member | |
| | bundle_has_geometry_collection | The bundle has a geometry collection member | |
| | bundle_has_member_collection - *Deprecated* | *Deprecated* The bundle has a member collection member | |
| | bundle_has_miscellaneous_collection | The bundle has a miscellaneous collection member | |

| Name: reference_type | | Version Id: 1.0.0.0 |
|-----------------------------|------------------------------------|-------------------------------------------------|
| | bundle_has_schema_collection | The bundle has a schema collection member |
| | bundle_has_spice_kernel_collection | The bundle has a spice kernel collection member |

reference_type in DD_Association

| Name: reference_type | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------|------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Association | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | attribute_of | The referenced attribute is a member of this class | |
| | component_of | The referenced class is a component of this class | |
| | extension_of - *Deprecated* | The referenced class is an extension of this class | |
| | parent_of | This class is a parent of the referenced class | |
| | restriction_of - *Deprecated* | The referenced class is a restriction of this class | |
| | subclass_of - *Deprecated* | The referenced class is a subclass of this class | |

reference_type in DD_Association_External *Deprecated*

| Name: reference_type | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------|------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Association_External *Deprecated* | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | attribute_of | The referenced attribute is a member of this class | |
| | component_of | The referenced class is a component of this class | |
| | extension_of | The referenced class is an extension of this class | |
| | parent_of | This class is a parent of the referenced class | |

| Name: reference_type | | Version Id: 1.0.0.0 |
|-----------------------------|----------------|-----------------------------------------------------|
| | restriction_of | The referenced class is a restriction of this class |
| | subclass_of | The referenced class is a subclass of this class |

reference_type in Internal_Reference

| Name: reference_type | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | |
| Namespace Id: pds | Steward: pds | Class Name: Internal_Reference |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |
| Extended Value(s) for: pds:Observing_System_Component/pds:Internal_Reference | Value | Value Meaning |
| | is_instrument | The referenced class is a context product describing the instrument. |
| | is_instrument_host | The referenced class is a context product describing the instrument_host. |
| | is_other | The referenced class is a context product describing something not classified. |
| | is_facility | The referenced class is a context product describing the facility. |
| | is_telescope | The referenced class is a context product describing the telescope. |
| | is_airborne | *Deprecated* The referenced class is a context product describing an airborne platform. |
| Extended Value(s) for: pds:Product_AIP/pds:Information_Package_Component/pds:Internal_Reference | Value | Value Meaning |
| | package_has_collection | The Archival Information Package contains a Collection. |
| | package_has_bundle | The Archival Information Package contains a Bundle. |
| | package_has_product | The Archival Information Package contains a basic Product. |
| | package_compiled_from_package | The Archival Information Package is compiled from a Submission Information Package. |
| Extended Value(s) for: pds:Product_Ancil- | Value | Value Meaning |

| Name: reference_type | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------|
| <i>lary/pds:Reference_List/pds:Internal_Reference</i> | | |
| | ancillary_to_data | The ancillary product is associated to a data product |
| <i>Extended Value(s) for: pds:Product_Browse/pds:Reference_List/pds:Internal_Reference</i> | Value | <i>Value Meaning</i> |
| | browse_to_data | The browse product is associated to a data product |
| | browse_to_thumbnail | The browse product is associated to a thumbnail |
| | browse_to_browse | The browse product is associated to a different browse product. |
| | browse_to_document | The browse product is associated to a document. |
| <i>Extended Value(s) for: pds:Product_Bundle/pds:Context_Area/pds:Investigation_Area/pds:Internal_Reference</i> | Value | <i>Value Meaning</i> |
| | bundle_to_investigation | The bundle is associated to an investigation |
| <i>Extended Value(s) for: pds:Product_Bundle/pds:Reference_List/pds:Internal_Reference</i> | Value | <i>Value Meaning</i> |
| | bundle_to_errata | The bundle is associated to an errata document |
| | bundle_to_document | The bundle is associated to a document |
| | bundle_to_investigation | The bundle is associated to an investigation |
| | bundle_to_instrument | The bundle is associated to an instrument |
| | bundle_to_instrument_host | The bundle is associated to an instrument host |
| | bundle_to_target | The bundle is associated to a target |
| | bundle_to_resource | The bundle is associated to a resource |
| | bundle_to_associate | The bundle is associated to a product |
| <i>Extended Value(s) for: pds:Product_Collection/pds:Context_Area/pds:Investigation_Area/pds:Internal_Reference</i> | Value | <i>Value Meaning</i> |
| | collection_to_investigation | The collection is associated to an investigation |
| <i>Extended Value(s) for: pds:Product_Collection/pds:Reference_List/pds:Internal_Reference</i> | Value | <i>Value Meaning</i> |

| Name: reference_type | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|
| | collection_to_resource | The collection is associated to a resource |
| | collection_to_associate | The collection is associated to a product |
| | collection_to_calibration | The collection is associated to calibration data |
| | collection_to_geometry | The collection is associated to geometry |
| | collection_to_spice_kernel | The collection is associated to spice kernels |
| | collection_curated_by_node | The collection is curated by the referenced node |
| | collection_to_document | The collection is associated to a document |
| | collection_to_browse | The collection is associated to a browse product |
| | collection_to_context | The collection is associated to a context product |
| | collection_to_data | The collection is associated to a data product |
| | collection_to_ancillary | The collection is associated to an ancillary product |
| | collection_to_schema | The collection is associated to a schema document |
| | collection_to_errata | The collection is associated to an errata document |
| | collection_to_bundle | The collection is associated to a bundle |
| | collection_to_personnel | The collection is associated to personnel |
| | collection_to_investigation | The collection is associated to an investigation |
| | collection_to_instrument | The collection is associated to an instrument |
| | collection_to_instrument_host | The collection is associated to an instrument host |
| | collection_to_target | The collection is associated to a target |
| <i>Extended Value(s) for: pds:Product_Context/pds:Reference_List/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | context_to_associate | The context product is associated to a product |
| | instrument_to_document | The instrument is associated to a document |
| | instrument_to_instrument_host | The instrument is associated to an instrument host |
| | instrument_host_to_document | The instrument host is associated to a document |
| | instrument_host_to_instrument | The instrument_host is associated to an instrument |
| | instrument_host_to_investigation | The instrument host is associated to an investigation |

| Name: reference_type | | Version Id: 1.0.0.0 |
|-----------------------------|----------------------------------|-------------------------------------------------------|
| | instrument_host_to_target | The instrument host is associated to a target |
| | investigation_to_document | The investigation is associated to a document |
| | investigation_to_instrument | The investigation is associated to an instrument |
| | investigation_to_instrument_host | The investigation is associated to an instrument_host |
| | investigation_to_target | The investigation is associated to a target |
| | node_to_personnel | The node is associated to a person |
| | node_to_agency | The node is associated to an agency |
| | node_to_manager | The node is associated to a manager |
| | node_to_operator | The node is associated to an operator |
| | node_to_data_archivist | The node is associated to a data archivist |
| | resource_to_instrument | The resource is associated to an instrument |
| | resource_to_instrument_host | The resource is associated to an instrument host |
| | resource_to_investigation | The resource is associated to an investigation |
| | resource_to_target | The resource is associated to a target |
| | target_to_document | The target is associated to a document |
| | target_to_instrument | The target is associated to an instrument |
| | target_to_instrument_host | The target is associated to an instrument_host |
| | target_to_investigation | The target is associated to an investigation |
| | instrument_to_telescope | The instrument is associated to a telescope |
| | instrument_to_observatory | The instrument is associated to an observatory |
| | instrument_to_facility | The instrument is associated to a facility |
| | telescope_to_observatory | The telescope is associated to an observatory |
| | telescope_to_facility | The telescope is associated to a facility |
| | telescope_to_airborne | The telescope is associated to an airborne platform |
| | investigation_to_facility | The investigation is associated to a facility |
| | investigation_to_telescope | The investigation is associated to a telescope |
| | facility_to_investigation | The facility is associated to an investigation |
| | facility_to_instrument | The facility is associated to an instrument |
| | facility_to_telescope | A facility is associated to a telescope |
| | investigation_to_facility | The investigation is associated to a facility |

| Name: reference_type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------|
| | telescope_to_instrument | A telescope is associated to an instrument |
| <i>Extended Value(s) for: pds:Product_DIP_DIP/pds:Information_Package_Component/pds:Internal_Reference</i> | Value | Value Meaning |
| | package_has_collection | The Dissemination Information Package contains a Collection. |
| | package_has_bundle | The Dissemination Information Package contains a Bundle. |
| | package_has_product | The Dissemination Information Package contains a basic Product. |
| | package_compiled_from_package | The Dissemination Information Package is compiled from an Archival Information Package. |
| <i>Extended Value(s) for: pds:Product_DIP_Deep_Archive/pds:Information_Package_Component/pds:Internal_Reference</i> | Value | Value Meaning |
| | package_has_collection | The Dissemination Information Package contains a Collection. |
| | package_has_bundle | The Dissemination Information Package contains a Bundle. |
| | package_has_product | The Dissemination Information Package contains a basic Product. |
| | package_compiled_from_package | The Dissemination Information Package is compiled from an Archival Information Package. |
| <i>Extended Value(s) for: pds:Product_Document/pds:Context_Area/pds:Investigation_Area/pds:Internal_Reference</i> | Value | Value Meaning |
| | document_to_investigation | The document is associated to an investigation |
| <i>Extended Value(s) for: pds:Product_Document/pds:Context_Area/pds:Target_Identification/pds:Internal_Reference</i> | Value | Value Meaning |
| | document_to_target | The document is associated to a target |
| <i>Extended Value(s) for: pds:Product_Document/pds:Reference_List/pds:Internal_Reference</i> | Value | Value Meaning |

| Name: reference_type | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|
| | document_to_associate | The document is associated to a product |
| | document_to_investigation | The document is associated to an investigation |
| | document_to_instrument_host | The document is associated to an instrument_host |
| | document_to_instrument | The document is associated to an instrument |
| | document_to_target | The document is associated to a target |
| <i>Extended Value(s) for: pds:Product_Observational/pds:Observation_Area/pds:Investigation_Area/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | data_to_investigation | The data product is associated to an investigation |
| <i>Extended Value(s) for: pds:Product_Observational/pds:Observation_Area/pds:Target_Identification/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | data_to_target | The data product is associated to a target |
| | collection_to_target | The collection is associated to a target |
| | bundle_to_target | The bundle is associated to a target |
| | document_to_target | The document is associated to a target |
| <i>Extended Value(s) for: pds:Product_Observational/pds:Reference_List/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | data_to_associate | The data product is associated to a product |
| | data_to_resource | The data product is associated to a resource |
| | data_to_calibration_document | The data product is associated to a calibration document |
| | data_to_calibration_product | The data product is associated to a calibration product |
| | data_to_raw_product | The data product is associated to a raw product |
| | data_to_calibrated_product | The data product is associated to a calibrated product |
| | data_to_derived_product | The data product is associated to a derived product |
| | data_to_geometry | The data product is associated to geometry |
| | data_to_spice_kernel | The data product is associated to spice kernel(s) |
| | data_to_thumbnail | The data product is associated to a thumbnail |
| | data_to_document | The data product is associated to a document |
| | data_curated_by_node | The data product is curated by the referenced node |

| Name: reference_type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | data_to_browse | The data product is associated to a browse product |
| | data_to_ancillary_data | The referencing data product requires the referenced data product to provide specific support for its own use. For example, a table with footnotes can be archived as two products: a data table file with a field giving a footnote code number; and a footnotes file sorted by those code numbers. The label of the data table would then reference the footnotes file with an association type of "data_to_ancillary_data". |
| <i>Extended Value(s) for: pds:Product_SIP/pds:Information_Package_Component/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | package_has_collection | The Submission Information Package contains a Collection. |
| | package_has_bundle | The Submission Information Package contains a Bundle. |
| | package_has_product | The Submission Information Package is contains a basic Product. |
| <i>Extended Value(s) for: pds:Product_SIP_Deep_Archive/pds:Information_Package_Component_Deep_Archive/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | package_has_bundle | The Submission Information Package Deep Archive contains a Bundle. |
| <i>Extended Value(s) for: pds:Product_Thumbnail/pds:Reference_List/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | thumbnail_to_data | The thumbnail product is associated to a data product. |
| | thumbnail_to_browse | The thumbnail product is associated to a browse product. |
| | thumbnail_to_document | The thumbnail product is associated to a document product. |
| <i>Extended Value(s) for: pds:Product_Update/pds:Reference_List/pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | update_to_collection | The update is associated to a collection product |

| Name: reference_type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------|----------------|---------------------------------------------|
| <i>Extended Value(s) for: pds:Product_Zipped/ pds:Internal_Reference</i> | <i>Value</i> | <i>Value Meaning</i> |
| | zip_to_package | The zip file contains a copy of the package |

reference_type in Inventory

| Name: reference_type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Inventory |
| | | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| | | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| | | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | inventory_has_member_product | The collection inventory has member products identified by either LIDVID or LID references |

reference_type in Source_Product_External

| Name: reference_type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Source_Product_External |
| | | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| | | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| | | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | data_to_calibrated_source_product | The data product is associated to a calibrated_source_product |
| | data_to_derived_source_product | The data product is associated to a derived_source_product |
| | data_to_partially_processed_source_product | The data product is associated to a partially_processed_source_product |
| | data_to_raw_source_product | The data product is associated to a raw_source_product |
| | data_to_telemetry_source_product | The data product is associated to a telemetry_source_product |

reference_type in Source_Product_Internal

| Name: reference_type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The reference_type attribute provides the name of the association. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Source_Product_Internal | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | data_to_calibrated_source_product | The data product is associated to a calibrated_source_product | |
| | data_to_derived_source_product | The data product is associated to a derived_source_product | |
| | data_to_partially_processed_source_product | The data product is associated to a partially_processed_source_product | |
| | data_to_raw_source_product | The data product is associated to a raw_source_product | |
| | data_to_telemetry_source_product | The data product is associated to a telemetry_source_product | |

referenced_identifier in Terminological_Entry_SKOS

| Name: referenced_identifier | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The referenced identifier attribute provides the identifier of the entity being referenced. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

registered_by in DD_Attribute_Full

| Name: registered_by | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The registered_by attribute provides the name of the person or organization that registered the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: registered_by | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

registered_by in DD_Class_Full

| Name: registered_by | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The registered_by attribute provides the name of the person or organization that registered the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

registration_authority in Terminological_Entry_SKOS

| Name: registration_authority | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The registration_authority attribute provides the name of the group responsible for the terminological entry. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | |
| | PDS3 | The term is governed by the PDS3 registration authority. | |
| | PDS4 | The term is governed by the PDS4 registration authority. | |
| | VICAR | The term is governed by the VICAR registration authority. | |

registration_authority_id in DD_Attribute_Full

| Name: registration_authority_id | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The registration_authority_id attribute provides the name of the organization that registered the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 0001_NASA_PDS_1 | The Attribute Registration_Authority is 0001_NASA_PDS_1 | |

registration_authority_id in DD_Class_Full

| Name: registration_authority_id | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The registration_authority_id attribute provides the name of the organization that registered the object. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

registration_date in PDS_Affiliate

| Name: registration_date | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The registration_date attribute provides the date of registration within the PDS system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

registration_date in PDS_Guest

| Name: registration_date | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|---------------------------------|
| <i>Description:</i> The registration_date attribute provides the date of registration within the PDS system. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Guest | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

release_date in Service

| Name: release_date | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The release_date attribute provides the date that the product was released. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

repetitions in Group

| Name: repetitions | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The repetitions attribute provides the number of times a set of repeating fields and, possibly, (sub)groups is replicated within a group. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

revision_id in Document

| Name: revision_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The revision_id attribute provides the revision level of a document, which may be set outside PDS and may be different from its version_id. | | | |

| Name: revision_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

rotation_direction in Target_PDS3

| Name: rotation_direction | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The rotation_direction element provides the direction of rotation as viewed from the north pole of the 'invariable plane of the solar system', which is the plane passing through the center of mass of the solar system and perpendicular to the angular momentum vector of the solar system. The value for this element is PROGRADE for counter-clockwise rotation, RETROGRADE for clockwise rotation and SYNCHRONOUS for satellites which are tidally locked with the primary. Sidereal_rotation_period and rotation_direction_type are unknown for a number of satellites, and are not applicable (N/A) for satellites which are tumbling. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Target_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Direction | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

rule_assign in DD_Rule

| Name: rule_assign | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The rule_assign attribute provides an assignment statement for a schematron rule. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Rule | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

rule_context in DD_Rule

| Name: rule_context | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------|---------------------|----------------------------|-------------------------------------------|
| <i>Description:</i> The rule_context attribute provides the xpath for the rule. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Rule | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: rule_context | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

rule_description in DD_Rule_Statement

| Name: rule_description | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| <i>Description:</i> The rule_description attribute provides a description of the rule statement suitable for user documentation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Rule_Statement | <i>Type:</i> ASCII_Text_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

rule_message in DD_Rule_Statement

| Name: rule_message | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| <i>Description:</i> The rule_message attribute provides a message to be displayed by the schematron processor when the test condition is met. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Rule_Statement | <i>Type:</i> ASCII_Text_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

rule_test in DD_Rule_Statement

| Name: rule_test | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| <i>Description:</i> The rule_test attribute provides the body of the statement to be executed by the schematron processor. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Rule_Statement | <i>Type:</i> ASCII_Text_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |

| | | |
|------------------------|----------------------------|---------------|
| Name: rule_test | Version Id: 1.0.0.0 | |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

rule_type in DD_Rule_Statement

| | | | |
|---------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|------------------------------------|
| Name: rule_type | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The rule_type attribute indicates the type of statement to be executed. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Rule_Statement | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Assert | The rule statement type is generic Assert. | |
| | Assert Every | The rule statement type is Assert Every. | |
| | Assert If | The rule statement type is Assert If. | |
| | Report | The rule statement type is Report. | |

rule_value in DD_Rule_Statement

| | | | |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|------------------------------------|
| Name: rule_value | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The rule_value attribute provides values to be used to complete certain schematons statements. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Rule_Statement | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

sample_display_direction in Display_2D_Image *Deprecated*

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|------------------------------------|
| Name: sample_display_direction | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The sample_display_direction attribute provides the preferred orientation of samples within a line for viewing on a display device. The attribute sample_display_direction must be used with line_display_direction. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Display_2D_Image *Deprecated* | Type: ASCII_Short_String_Collapsed |

| Name: sample_display_direction | | | Version Id: 1.0.0.0 |
|---------------------------------------|------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Direction | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Right | The preferred orientation of samples within a line for viewing on a display device is Right | |

sampling_parameter_base in Uniformly_Sampled

| Name: sampling_parameter_base | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------|---------------------------------|
| <i>Description:</i> The sampling_parameter_base attribute provides the base b by which exponentials are calculated in the definition of the attribute sampling_parameter_interval. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Uniformly_Sampled | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 1.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sampling_parameter_interval in Uniformly_Sampled

| Name: sampling_parameter_interval | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------|---------------------------------|
| <i>Description:</i> The sampling_parameter_interval attribute provides the spacing of points at which data are sampled and at which values for an instrument or other parameter are available. If x1 and xn are the first and last sampling parameter values, respectively, xn is larger than x1, n is the number of sampling parameters, the caret symbol (^) denotes exponentiation, and b, a positive real number, is the base for exponentiation, then the value of sampling_parameter_interval is: (xn-x1)/(n-1) (for sampling_parameter_scale = Linear), (xn/x1)^(1/(n-1)) (for sampling_parameter_scale = Logarithmic), (b^xn-b^x1)/(n-1) (for sampling_parameter_scale = Exponential). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Uniformly_Sampled | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 1.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sampling_parameter_name in Uniformly_Sampled

| Name: sampling_parameter_name | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------|
| <i>Description:</i> The sampling_parameter_name element provides the name of the parameter which determines the sampling interval of a particular instrument or dataset parameter. For example, magnetic field intensity is sampled in time increments, and a spectrum is sampled in wavelength or frequency. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Uniformly_Sampled |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>No Values</i> | |

sampling_parameter_scale in Uniformly_Sampled

| Name: sampling_parameter_scale | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The sampling_parameter_scale element specifies whether the sampling interval is linear or something other such as logarithmic. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Uniformly_Sampled |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Scale <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Exponential | The values of the independent variable in Exponential Uniformly Sampled data are given at uniform spacing of the exponential of some base b, a positive real number. That is, for independent variable x in the range [x1, xn], the sampling points xj satisfy: $b^x_j = b^{x_1} + (j-1)(b^{x_n} - b^{x_1})/(n-1)$ for j = 1 ... n where the caret symbol (^) denotes exponentiation. For example, if the independent variable has values 0., 0.30103, 0.47712, 0.60206, ... and the base is 10, then the Exponential Uniformly Spaced data are given at 10^0., 10^0.30103, 10^0.47712, 10^0.60206, ... or 1, 2, 3, 4, ... |
| | Linear | Values of Uniformly_Sampled are given at uniform (linear) spacings of an independent variable - for example, 1, 2, 3, 4, ... |

| Name: sampling_parameter_scale | | Version Id: 1.0.0.0 |
|---------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Logarithmic | The values of the independent variable, x, in Logarithmic Uniformly Sampled data are given at uniform spacing of the logarithm of x in some base, b, a positive real number. That is, for independent variable x in the range [x1, xn], the sampling points xj satisfy: $\log_b(x_j) = \log_b(x_1) + (j-1)(\log_b(x_n) - \log_b(x_1))/(n-1)$ for $j = 1 \dots n$ where $\log_b(x)$ is the log of x in base b. For example, if the independent variable has values 1, 10, 100, 1000, ... and the base is 10, then the Logarithmic Uniformly Spaced data are given at 0, 1, 2, 3 ... |

sampling_parameter_unit in Uniformly_Sampled

| Name: sampling_parameter_unit | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The sampling_parameter_unit element specifies the unit of measure of associated data sampling parameters. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Uniformly_Sampled | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sampling_parameters in Uniformly_Sampled *Deprecated*

| Name: sampling_parameters *Deprecated* | | Version Id: 1.0.0.0 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------|----------------------------------------|
| <i>Description:</i> The sampling_parameters attribute provides the total number of sampling parameter values between first_sampling_parameter_value and last_sampling_parameter_value (inclusive). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Uniformly_Sampled | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 2 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

saturated_constant in Special_Constants

| <i>Name:</i> saturated_constant | | | <i>Version Id:</i> 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Description:</i> The saturated_constant attribute provides a value that indicates the original value was invalid because of sensor saturation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Special_Constants | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Constant | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

scaling_factor in Band_Bin *Deprecated*

| <i>Name:</i> scaling_factor | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------|
| <i>Description:</i> The scaling_factor attribute is the scaling factor to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

scaling_factor in Element_Array

| <i>Name:</i> scaling_factor | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The scaling_factor attribute is the scaling factor to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Element_Array | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Factor | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

scaling_factor in Field_Binary

| Name: scaling_factor | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The scaling_factor attribute is the scaling factor to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Binary | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Factor | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

scaling_factor in Field_Bit

| Name: scaling_factor | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The scaling_factor attribute is the scaling factor to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Factor | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

scaling_factor in Field_Character

| Name: scaling_factor | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The scaling_factor attribute is the scaling factor to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Factor | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

scaling_factor in Field_Delimited

| Name: scaling_factor | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The scaling_factor attribute is the scaling factor to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e308 | <i>Maximum Value:</i> 931348623157e308 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Factor | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sequence_number in Axis_Array

| Name: sequence_number | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|----------------------------------------|
| <i>Description:</i> The sequence_number attribute provides a number that is used to order axes in an array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Axis_Array | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sequence_number in Quaternion_Component

| Name: sequence_number | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|----------------------------------------|
| <i>Description:</i> The sequence_number attribute provides a number that is used to order axes in an array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternion_Component | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sequence_number in Vector_Component

| Name: sequence_number | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|----------------------------------------|
| <i>Description:</i> The sequence_number attribute provides a number that is used to order axes in an array. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Component | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 16 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

serial_number in Instrument

| Name: serial_number | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The serial number element provides the assigned manufacturer's serial number. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

serial_number in Instrument_Host

| Name: serial_number | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The serial number attribute provides the manufacturer's serial number assigned to an instrument host. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

service_type in Service

| Name: service_type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|---------------------|----------------------------|-------------------------------------------|
| <i>Description:</i> The service type attribute identifies the class of system function provided. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: service_type | | | Version Id: 1.0.0.0 |
|--------------------------------------|------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Service | The service type Service describes an application that performs a system function on-line. | |
| | Tool | The service type Tool describes an application that performs a system function off-line. | |

skos_relation_name in Terminological_Entry_SKOS

| Name: skos_relation_name | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The attribute skos_relation_name provides a meaning of the relationship between two associated terms. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | broadMatch | BroadMatch is used to state a hierarchical mapping link between two conceptual resources in different concept schemes | |
| | closeMatch | CloseMatch is used to link two concepts that are sufficiently similar that they can be used interchangeably | |
| | exactMatch | ExactMatch is used to link two concepts, indicating a high degree of confidence that the concepts can be used interchangeably | |
| | narrowMatch | NarrowMatch is used to state a hierarchical mapping link between two conceptual resources in different concept schemes | |
| | relatedMatch | RelatedMatch is used to state an associative mapping link between two conceptual resources in different concept schemes | |

software_dialect in Software_Source

| Name: software_dialect | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The software dialect attribute indicates the variety of a language used to write the software. | | | |

| Name: software_dialect | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

software_format_type in Software_Binary

| Name: software_format_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The software format type attribute classifies the format of the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Binary | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

software_format_type in Software_Source

| Name: software_format_type | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The software format type attribute classifies the format of the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

software_id in Software

| Name: software_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The software id attribute provides a formal name used to refer to the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| | |
|--------------------------|----------------------------|
| Name: software_id | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values |

software_language in Service

| | | | |
|---------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|------------------------------------|
| Name: software_language | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The software language attribute identifies the language used to write the software. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Service | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

software_language in Software_Source

| | | | |
|---------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|------------------------------------|
| Name: software_language | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The software language attribute identifies the language used to write the software. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Software_Source | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Text | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

software_type in Software

| | | | |
|---------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|------------------------------------|
| Name: software_type | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The software type attribute identifies the class of which the software is a member. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Software | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

software_version_id in Software

| | |
|---------------------------------------------------------------------------------------------|----------------------------|
| Name: software_version_id | Version Id: 1.0.0.0 |
| <i>Description:</i> The software_version_id attribute provides the version of the software. | |

| Name: software_version_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

solar_longitude in Time_Coordinates

| Name: solar_longitude | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|---------------------------------|
| <i>Description:</i> The solar_longitude attribute provides the angle between the body-Sun line at the time of interest and the body-Sun line at its vernal equinox. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Time_Coordinates | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 360 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Angle | <i>Default Unit Id:</i> deg | <i>Attribute Concept:</i> Longitude | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sort_name in PDS_Affiliate

| Name: sort_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The sort name attribute provides a string to be used in ordering. For people, the last name (surname) is typically first, followed by a comma and then other names. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

sort_name in PDS_Guest

| Name: sort_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The sort name attribute provides a string to be used in ordering. For people, the last name (surname) is typically first, followed by a comma and then other names. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Guest | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: sort_name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

specified_unit_id in DD_Value_Domain

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

specified_unit_id in DD_Value_Domain_Full

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

specified_unit_id in Unit_Of_Measure

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Unit_Of_Measure | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

specified_unit_id in Units_of_Acceleration

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Acceleration | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | m/s**2 | Units_of_Acceleration maximum, minimum, and permissible values are given in units of meter per second per second. | |

specified_unit_id in Units_of_Amount_Of_Substance

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Amount_Of_Substance | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | mol | Units_of_Amount_Of_Substance maximum, minimum, and permissible values are given in the unit mole | |

specified_unit_id in Units_of_Angle

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Angle | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------|-----------------|--------------------------------------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | deg | Units_of_Angle maximum, minimum, and permissible values are given in the unit degree | |

specified_unit_id in Units_of_Angular_Velocity

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Angular_Velocity | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | deg/s | Units_of_Angular_Velocity maximum, minimum, and permissible values are given in the unit degree per second | |

specified_unit_id in Units_of_Area

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Area | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | m**2 | Units_of_Area maximum, minimum, and permissible values are given in the unit square meter | |

specified_unit_id in Units_of_Current

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------------------------------------------------|------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Current | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | A | Units_of_Current maximum, minimum, and permissible values are given in the unit A | |

specified_unit_id in Units_of_Energy

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Energy | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | J | Units_of_Energy maximum, minimum, and permissible values are given in the unit joule. | |

specified_unit_id in Units_of_Frame_Rate

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Frame_Rate | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | frames/s | Units_of_Frame_Rate maximum, minimum, and permissible values are given in the unit frame per second | |

specified_unit_id in Units_of_Frequency

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Frequency | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Hz | Units_of_Frequency maximum, minimum, and permissible values are given in the unit hertz (cycle per second) | |

specified_unit_id in Units_of_Length

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Length | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | m | Units_of_Length maximum, minimum, and permissible values are given in the unit meter | |

specified_unit_id in Units_of_Map_Scale

Deprecated

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Map_Scale *Deprecated* | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | pixel/deg | Units_of_Map_Scale maximum, minimum, and permissible values are given in the unit pixel per degree. | |

specified_unit_id in Units_of_Mass

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Mass | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | kg | Units_of_Mass maximum, minimum, and permissible values are given in the unit kilogram. | |

specified_unit_id in Units_of_Misc

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Misc | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | DN | Units_of_Misc maximum, minimum, and permissible values are given in the unit data number. | |

specified_unit_id in Units_of_None

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|-----------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_None | Type: UTF8_Short_String_Collapsed |

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | none | Units_of_None maximum, minimum, and permissible values are dimensionless. | |

specified_unit_id in Units_of_Optical_Path_Length

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Optical_Path_Length | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | airmass | Units_of_Optical_Path_Length maximum, minimum, and permissible values are given in the unit airmass | |

specified_unit_id in Units_of_Pixel_Resolution_Angular

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Resolution_Angular | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | deg/pixel | Units_of_Pixel_Resolution_Angular maximum, minimum, and permissible values are given in the unit deg/pixel | |

specified_unit_id in Units_of_Pixel_Resolution_Linear

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Resolution_Linear | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | km/pixel | Units_of_Pixel_Resolution_Linear maximum, minimum, and permissible values are given in the unit km/pixel | |

specified_unit_id in Units_of_Pixel_Resolution_Map

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> cart | <i>Class Name:</i> Units_of_Pixel_Resolution_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | km/pixel | Units_of_Pixel_Resolution_Map maximum, minimum, and permissible values are given in the unit km/pixel | |

specified_unit_id in Units_of_Pixel_Scale_Angular

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Scale_Angular | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | pixel/deg | Units_of_Pixel_Scale_Angular maximum, minimum, and permissible values are given in the unit pixel/deg | |

specified_unit_id in Units_of_Pixel_Scale_Linear

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Scale_Linear | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | pixel/km | Units_of_Pixel_Scale_Linear maximum, minimum, and permissible values are given in the unit pixel/km | |

specified_unit_id in Units_of_Pixel_Scale_Map

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> cart | <i>Class Name:</i> Units_of_Pixel_Scale_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | pixel/deg | Units_of_Pixel_Scale_Map maximum, minimum, and permissible values are given in the unit pixel/deg | |

specified_unit_id in Units_of_Pressure

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pressure | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | bar | Units_of_Pressure maximum, minimum, and permissible values are given in the unit bar (one bar = 100,000 Pa) | |

specified_unit_id in Units_of_Radiance

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Radiance | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | W/(m**2*sr) | Units_of_Radiance maximum, minimum, and permissible values are given in the unit watt per square meter per steradian | |

specified_unit_id in Units_of_Rates

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Rates | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| Name: specified_unit_id | | Version Id: 1.0.0.0 |
|--------------------------------|------------|------------------------------------------------------------------------------------------|
| | counts/bin | Units_of_Rates maximum, minimum, and permissible values are given in the unit counts/bin |

specified_unit_id in Units_of_Solid_Angle

| Name: specified_unit_id | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Solid_Angle |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | sr | Units_of_Solid_Angle maximum, minimum, and permissible values are given in the unit steradian. |

specified_unit_id in Units_of_Spectral_Irradiance

| Name: specified_unit_id | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Spectral_Irradiance |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | W/m**3 | Units_of_Spectral_Irradiance maximum, minimum, and permissible values are given in the unit watts per square meter (of area) per meter (of wavelength) |

specified_unit_id in Units_of_Spectral_Radiance

| Name: specified_unit_id | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | |

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Spectral_Radiance | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | W/m**3/sr | Units_of_Spectral_Radiance maximum, minimum, and permissible values are given in the unit watts per square meter (of area) per steradian per meter (of wavelength) | |

specified_unit_id in Units_of_Storage

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Storage | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | byte | Units_of_Storage maximum, minimum, and permissible values are given in the unit byte | |

specified_unit_id in Units_of_Temperature

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Temperature | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | degC | Units_of_Temperature maximum, minimum, and permissible values are given in the unit degree Celsius | |

specified_unit_id in Units_of_Time

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Time | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | s | Units_of_Time maximum, minimum, and permissible values are given in the unit second | |

specified_unit_id in Units_of_Velocity

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Velocity | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | m/s | Units_of_Velocity maximum, minimum, and permissible values are given in the unit meter per second | |

specified_unit_id in Units_of_Voltage

| Name: specified_unit_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Voltage | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| Name: specified_unit_id | | Version Id: 1.0.0.0 |
|--------------------------------|---|--------------------------------------------------------------------------------------|
| | V | Units_of_Voltage maximum, minimum, and permissible values are given in the unit volt |

specified_unit_id in Units_of_Volume

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Volume | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | L | Units_of_Volume maximum, minimum, and permissible values are given in the unit liter | |

specified_unit_id in Units_of_Wavenumber

| Name: specified_unit_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The specified_unit_id attribute provides the unit chosen for maximum_value, minimum_value, and permissible_value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Wavenumber | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | 1/cm | Units_of_Wavenumber maximum, minimum, and permissible values are given in the unit "per centimeter" | |

standard_deviation in Band_Bin *Deprecated*

| Name: standard_deviation | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------|
| <i>Description:</i> The standard_deviation attribute provides the standard deviation of values in the associated object; empty and Special_Constants values are excluded. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 1.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |

| | | |
|---------------------------------|-----------------|----------------------------|
| Name: standard_deviation | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

standard_deviation in Field_Statistics

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|--------------------------|
| Name: standard_deviation | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The standard_deviation attribute provides the standard deviation of the stored field over all records (empty fields and Special_Constants values are excluded from the computation). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Statistics | Type: ASCII_Real |
| Minimum Value: 0 | Maximum Value: 1.7976931348623157e30 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Number | Conceptual Domain: Real |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

standard_deviation in Object_Statistics

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|--------------------------|
| Name: standard_deviation | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The standard_deviation attribute provides the standard deviation of the stored array element values after application of any bit mask (Special_Constants values are excluded from the computation). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Object_Statistics | Type: ASCII_Real |
| Minimum Value: 0 | Maximum Value: 1.7976931348623157e30 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Number | Conceptual Domain: Real |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

start_bit in Field_Bit *Deprecated*

| | | | |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------|---------------------------------|
| Name: start_bit *Deprecated* | | Version Id: 1.0.0.0 | |
| <i>Description:</i> The start_bit attribute provides the position of the first bit within an ordered sequence of bits. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Bit | Type: ASCII_NonNegative_Integer |
| Minimum Value: 1 | Maximum Value: 18446744073709551615 | Minimum Characters: None | Maximum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Bit | Conceptual Domain: Integer |
| Status: Deprecated | Nillable: false | Pattern: [0-9]+ | |
| Permissible Value(s) | No Values | | |

start_bit_location in Field_Bit

| Name: start_bit_location | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The start_bit_location attribute provides the position of the first bit in a bit field relative to the first bit in the parent packed data field. Bytes are sequential and bits are numbered continuously across byte boundaries within a single bit field. The first bit position in the packed data field is "1". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Bit | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

start_date in Investigation

| Name: start_date | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------|------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The start_date attribute provides the date when an activity began. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

start_date_time in Data_Set_PDS3 *Deprecated*

| Name: start_date_time *Deprecated* | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|--------------------------------------|
| <i>Description:</i> The start_date_time attribute provides the date and time at the beginning of the data set. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Date_Time_YMD_UTC |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Deprecated | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

start_date_time in Time_Coordinates

| Name: start_date_time | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|--------------------------------------|
| <i>Description:</i> The start_date_time attribute provides the date and time appropriate to the beginning of the product being labeled. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Time_Coordinates | <i>Type:</i> ASCII_Date_Time_YMD_UTC |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

start_time in Data_Set_PDS3

| Name: start_time | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The start_time attribute provides the date and time of the beginning of an event or observation (whether it be a spacecraft, ground-based, or system event) in UTC. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Date_Time |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

starting_point_identifier in Document_Edition

| Name: starting_point_identifier | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The starting_point attribute provides the local_identifier of the object to be accessed first. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Document_Edition | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

steward_id in DD_Attribute_Full

| Name: steward_id | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The steward attribute indicates the person or organization that manages a set of registered attributes and classes. | | | |

| Name: steward_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |
| | | atm | Steward of the attribute is the PDS Atmospheres discipline node |
| | | geo | Steward of the attribute is the PDS Geosciences discipline node |
| | | img | Steward of the attribute is the PDS Imaging support node |
| | | naif | Steward of the attribute is the PDS Navigation and Ancillary Information Facility support node |
| | | ops | Steward of the attribute is the PDS operations function |
| | | pds | Steward of the attribute is the Planetary Data System |
| | | ppi | Steward of the attribute is the PDS Planetary Plasma Interaction discipline node |
| | | rings | Steward of the attribute is the PDS Rings discipline node |
| | | rs | Steward of the attribute is the PDS radio science function |
| | | sbn | Steward of the attribute is the PDS Small Bodies discipline node |

steward_id in DD_Class_Full

| Name: steward_id | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------------------------------------|
| <i>Description:</i> The steward_id attribute provides the abbreviation of the organization that manages the set of registered attributes and classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |
| | | atm | Steward of the attribute is the PDS Atmospheres discipline node |
| | | geo | Steward of the attribute is the PDS Geosciences discipline node |

| Name: steward_id | | Version Id: 1.0.0.0 |
|-------------------------|-------|------------------------------------------------------------------------------------------------|
| | img | Steward of the attribute is the PDS Imaging support node |
| | naif | Steward of the attribute is the PDS Navigation and Ancillary Information Facility support node |
| | ops | Steward of the attribute is the PDS operations function |
| | pds | Steward of the attribute is the Planetary Data System |
| | ppi | Steward of the attribute is the PDS Planetary Plasma Interaction discipline node |
| | rings | Steward of the attribute is the PDS Rings discipline node |
| | rs | Steward of the attribute is the PDS radio science function |
| | sbn | Steward of the attribute is the PDS Small Bodies discipline node |

steward_id in Ingest_LDD

| Name: steward_id | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------------------|
| <i>Description:</i> The steward_id attribute provides the abbreviation of the organization that manages the set of registered attributes and classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Ingest_LDD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

steward_id in Terminological_Entry_SKOS

| Name: steward_id | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The steward_id attribute provides the abbreviation of the organization that manages the set of registered attributes and classes. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

stop_bit in Field_Bit *Deprecated*

| <i>Name: stop_bit *Deprecated*</i> | | | <i>Version Id: 1.0.0.0</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The stop-bit attribute provides the location of the last bit in this bit field relative to the first bit in the packed_data field. Bits are numbered continuously across byte boundaries. The first bit location in the packed data field is "1". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Bit | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

stop_bit_location in Field_Bit

| <i>Name: stop_bit_location</i> | | | <i>Version Id: 1.0.0.0</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The stop_bit_location attribute provides the position of the last bit in a bit field relative to the first bit in the parent packed data field. Bytes are sequential and bits are numbered continuously across byte boundaries within a single bit field. The first bit position in the packed data field is "1". | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 1 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Bit | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

stop_date in Investigation

| <i>Name: stop_date</i> | | | <i>Version Id: 1.0.0.0</i> |
|---------------------------------------------------------------------------------------|------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The stop_date attribute provides the date when an activity ended. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation | <i>Type:</i> ASCII_Date_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

stop_date_time in Data_Set_PDS3 *Deprecated*

| Name: stop_date_time *Deprecated* | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|--------------------------------------|
| <i>Description:</i> The stop_date_time attribute provides the date and time at the end of the data set. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Date_Time_YMD_UTC |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Deprecated | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

stop_date_time in Time_Coordinates

| Name: stop_date_time | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|--------------------------------------|
| <i>Description:</i> The stop_date_time attribute provides the date and time appropriate to the end of the product being labeled. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Time_Coordinates | <i>Type:</i> ASCII_Date_Time_YMD_UTC |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

stop_time in Data_Set_PDS3

| Name: stop_time | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The stop_time element provides the date and time of the end of an observation or event (whether it be a spacecraft, ground-based, or system event) in UTC. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Data_Set_PDS3 | <i>Type:</i> ASCII_Date_Time |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> true | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

subfacet1 in Group_Facet1

| Name: subfacet1 | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The subfacet1 attribute provides a sub-categorization under the facet1 value. The allowed values are restricted according to the value of facet1. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Facet1 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

subfacet2 in Group_Facet2

| Name: subfacet2 | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The subfacet2 attribute provides a sub-categorization under the facet2 value. The allowed values are restricted according to the value of facet2. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Group_Facet2 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

submitter_name in DD_Attribute

| Name: submitter_name | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The submitter_name attribute provides the name of the author, who submits the item to the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

submitter_name in DD_Attribute_Full

| Name: submitter_name | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The submitter_name attribute provides the name of the author, who submits the item to the steward. | | | |

| Name: submitter_name | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

submitter_name in DD_Class

| Name: submitter_name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The submitter_name attribute provides the name of the author, who submits the item to the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

submitter_name in DD_Class_Full

| Name: submitter_name | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The submitter_name attribute provides the name of the author, who submits the item to the steward. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

subscription_id in Subscriber_PDS3

| Name: subscription_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------|----------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The subscriber_id provides the identification of a PDS subscription. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Subscriber_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: subscription_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

subtype in Instrument *Deprecated*

| Name: subtype *Deprecated* | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The subtype attribute is a special type included within the general type. It provides more specific clarifying and/or supplemental information as to the nature of the type. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

supported_architecture_note in Software_Binary

| Name: supported_architecture_note | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The supported architecture note attribute identifies the hardware architecture that can process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Binary | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

supported_architecture_note in Software_Source

| Name: supported_architecture_note | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The supported architecture note attribute identifies the hardware architecture that can process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| Name: supported_architecture_note | | | Version Id: 1.0.0.0 |
|------------------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

supported_environment_note in Software_Script

| Name: supported_environment_note | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The supported environment note attribute identifies the environment that can process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Script | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

supported_operating_system_note in Service

| Name: supported_operating_system_note | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------------------------------|
| <i>Description:</i> The supported operating system note attribute identifies the Operating System that supports the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

supported_operating_system_note in Software_Binary

| Name: supported_operating_system_note | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The supported operating system note attribute identifies the Operating System that supports the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Binary | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| Name: supported_operating_system_note | | | Version Id: 1.0.0.0 |
|----------------------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

supported_operating_system_note in Software_Source

| Name: supported_operating_system_note | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The supported operating system note attribute identifies the Operating System that supports the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

system_requirements_note in Service

| Name: system_requirements_note | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------------------------------|
| <i>Description:</i> The system requirements note attribute identifies what is necessary to process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

system_requirements_note in Software_Binary

| Name: system_requirements_note | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The system requirements note attribute identifies what is necessary to process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Binary | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| Name: system_requirements_note | | | Version Id: 1.0.0.0 |
|---------------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

system_requirements_note in Software_Script

| Name: system_requirements_note | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The system requirements note attribute identifies what is necessary to process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Script | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

system_requirements_note in Software_Source

| Name: system_requirements_note | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| <i>Description:</i> The system requirements note attribute identifies what is necessary to process the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software_Source | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Note | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

target_desc in Target_PDS3

| Name: target_desc | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------|
| <i>Description:</i> The target_desc attribute describes the characteristics of a particular target. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Target_PDS3 | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Description | <i>Conceptual Domain:</i> Text |

| | | | |
|--------------------------|-----------------|---------------|----------------------------|
| Name: target_desc | | | Version Id: 1.0.0.0 |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

target_name in Target_PDS3

| | | | |
|------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|------------------------------------|
| Name: target_name | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The target_name attribute provides a name by which the target is formally known. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Target_PDS3 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

target_type in Target_PDS3

| | | | |
|--------------------------------------------------------------------------------------|-----------------------|-------------------------|------------------------------------|
| Name: target_type | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The target_type attribute identifies the type of a named target. | | | |
| Namespace Id: pds | Steward: ops | Class Name: Target_PDS3 | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

team_name in PDS_Affiliate

| | | | |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------|------------------------------------|
| Name: team_name | | | Version Id: 1.0.0.0 |
| <i>Description:</i> The team_name attribute provides the name of a group of individuals working together. | | | |
| Namespace Id: pds | Steward: ops | Class Name: PDS_Affiliate | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Name | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Cartography and Imaging Sciences Discipline | Team name is Cartography and Imaging Sciences Discipline | |
| | Engineering | Team name is Engineering | |

| Name: team_name | | Version Id: 1.0.0.0 |
|------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| | Geosciences | Team name is Geosciences |
| | Headquarters | Team name is Headquarters |
| | Imaging - *Deprecated* | The Node has name Imaging |
| | Management | Team name is Management |
| | National Space Science Data Center | Team name is National Space Science Data Center (until 2014) or National Space Science Data Coordinated Archive |
| | Navigation and Ancillary Information Facility | Team name is Navigation and Ancillary Information Facility |
| | Planetary Atmospheres | Team name is Planetary Atmospheres |
| | Planetary Plasma Interactions | Team name is Planetary Plasma Interactions |
| | Planetary Rings - *Deprecated* | The Node has name Planetary Rings |
| | Radio Science | Team name is Radio Science |
| | Ring-Moon Systems | Team name is Ring-Moon Systems |
| | Small Bodies | Team name is Small Bodies |

telephone_number in PDS_Affiliate

| Name: telephone_number | Version Id: 1.0.0.0 | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The telephone_number attribute provides a telephone number in international notation in compliance with the E.164 telephone number format recommendation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> PDS_Affiliate | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | | |

telescope_altitude in Telescope

| Name: telescope_altitude | Version Id: 1.0.0.0 | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------|---------------------------------|
| <i>Description:</i> The telescope_altitude attribute provides the height of the telescope above a plane tangent to the reference figure (or datum) at the telescope location. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Length | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | | |

telescope_latitude in Telescope

| Name: telescope_latitude | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------|---------------------------------|
| <i>Description:</i> The telescope_latitude attribute provides the angular distance of the telescope north (positive) from the equator, measured on the meridian of the telescope. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -90 | <i>Maximum Value:</i> 90 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Angle | <i>Default Unit Id:</i> deg | <i>Attribute Concept:</i> Latitude | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

telescope_longitude in Telescope

| Name: telescope_longitude | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|---------------------------------|
| <i>Description:</i> The telescope_longitude attribute provides the angular distance of the telescope east (positive), measured by the angle contained between the meridian of the telescope and the reference figure (or datum) prime meridian. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Telescope | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 360 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> Units_of_Angle | <i>Default Unit Id:</i> deg | <i>Attribute Concept:</i> Longitude | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

title in Composite_Structure

| Name: title | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The title attribute provides a short, descriptive text string suitable for use as a title or brief description in a display or listing of products. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Composite_Structure | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

title in Identification_Area

| Name: title | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The name given to the resource. Typically, a Title will be a name by which the resource is formally known. - Dublin Core - The title is used to refer to an object in a version independent manner. | | | |

| Name: title | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|----------------------------------------|------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Identification_Area | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Title | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

title in Property_Map

| Name: title | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The title attribute provides a short, descriptive text string suitable use as a title or brief description in display or listing of products. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

title in Property_Maps

| Name: title | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The title attribute provides a short, descriptive text string suitable use as a title or brief description in display or listing of products. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Property_Maps | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

title in Terminological_Entry_SKOS

| Name: title | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The title attribute provides a short, descriptive text string suitable use as a title or brief description in display or listing of products. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Terminological_Entry_SKOS | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: title | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

transfer_manifest_checksum in Information_Package_Component

| Name: transfer_manifest_checksum | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|----------------------------------------|
| <i>Description:</i> The transfer manifest checksum provides the checksum for the transfer manifest file. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Information_Package_Component | <i>Type:</i> ASCII_MD5_Checksum |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 32 | <i>Maximum Characters:</i> 32 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Checksum | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9a-fA-F]{32} | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

type in Airborne *Deprecated*

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Airborne *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Aircraft | An airborne observatory carried on a powered, heavier than air vessel supporting observations, measurements, and scientific experiments during flight. | |
| | Balloon | A balloon-borne observatory, typically consisting of a gondola structure carrying one or more telescopes and instruments, borne aloft by an unpowered or minimally powered lighter-than-atmosphere balloon for a limited observing period. | |
| | Suborbital Rocket | A Suborbital Rocket is an instrument-carrying rocket designed to take measurements and perform scientific experiments during its sub-orbital flight. | |

type in DD_Attribute_Full

| Name: type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the attribute definition according to origin. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | PDS3 | The attribute definition originated under PDS3 | |
| | PDS4 | The attribute definition originated under PDS4 | |

type in DD_Class_Full

| Name: type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the attribute definition according to origin. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | PDS3 | The class definition originated under PDS3 | |
| | PDS4 | The class definition originated under PDS4 | |

type in Facility

| Name: type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the facility according to its function. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Facility | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Laboratory | The facility is a laboratory | |
| | Observatory | The facility is an observatory | |

type in Instrument *Deprecated*

| <i>Name:</i> type *Deprecated* | | | <i>Version Id:</i> 1.0.0.0 |
|---------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the instrument according to its function. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Accelerometer | An instrument that measures proper (i.e., its own) acceleration. | |
| | Alpha Particle Detector | An instrument that measures the number and/or distribution of alpha particles. | |
| | Alpha Particle X-Ray Spectrometer | An instrument that bombards a sample with alpha particles and X-rays and measures the energy spectrum of scattered alpha particles and X-rays to determine the sample's elemental composition. | |
| | Altimeter | An instrument that measures its own altitude above a reference surface. | |
| | Anemometer | An in situ instrument that measures wind speed. | |
| | Atmospheric Sciences | A top level category for atmospheric science instruments. | |
| | Atomic Force Microscope | An instrument that uses atomic forces between a probe and a sample to produce high-resolution topographic scans of the sample. | |
| | Barometer | An in situ instrument that measures atmospheric pressure. | |
| | Biology Experiments | An instrument that conducts one or more experiments on samples to determine their potential for biological activity. | |
| | Bolometer | An instrument that estimates radiation intensity by measuring changes in electrical resistivity as the temperature of its sensor varies in response to the incident power density. | |
| | Camera | An instrument that records and stores analog images (compare 'imager'). | |
| | Cosmic Ray Detector | An instrument that detects and/or measures cosmic rays. | |
| | Drilling Tool | A tool that drills into samples. | |
| | Dust | An instrument that detects and/or measures dust. | |
| | Dust Detector | An instrument that detects and/or measures dust. | |
| | Electrical Probe | An in situ instrument that measures electrical properties (e.g., conductivity) of a medium into which it is inserted. | |

| Name: type *Deprecated* | | Version Id: 1.0.0.0 |
|--------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Energetic Particle Detector | An instrument that detects and/or measures energetic charged particles. |
| | Gamma Ray Detector | An instrument that detects and/or measures gamma rays. |
| | Gas Analyzer | A high-temperature furnace combined with a mass spectrometer that heats a sample and analyzes the mass distribution of the evolved gases. |
| | Gravimeter | An instrument that measures the local gravitational field. |
| | Grinding Tool | A tool that grinds into samples. |
| | Hygrometer | An instrument used to measure the moisture content of its environment. |
| | Imager | An instrument that records and stores digital images. |
| | Imaging Spectrometer | An instrument that combines the functions of a spectrometer and an imager - i.e., it captures and stores multiple images, each at a slightly different wavelength. |
| | Inertial Measurement Unit | An instrument that measures changes in its own velocity and orientation by using a combination of accelerometers, gyroscopes, and/or other devices. |
| | Infrared Spectrometer | An instrument that measures the spectral distribution of infrared radiation. |
| | Interferometer | An instrument used to measure small displacements, refractive index changes and surface irregularities using interferometry. |
| | Laser Induced Break-down Spectrometer | An instrument that uses an active laser to generate a plasma from a target and then measures the energy spectrum of the evolved plasma. |
| | Magnetometer | An instrument that measures the strength and/or direction of a magnetic field. |
| | Mass Spectrometer | An instrument that measures the number of particles in a sample as a function of their mass. |
| | Microscope | An instrument used to view objects that are too small to be seen by the naked eye. |
| | Microwave Spectrometer | An instrument that measures the spectral distribution of microwave radiation. |
| | Moessbauer Spectrometer | An instrument that uses the Mossbauer effect to determine the abundance of Fe-bearing minerals in a sample. |
| | Naked Eye | Observations made with the naked eye and recorded in a data product. |
| | Neutral Particle Detector | An instrument that detects and/or measures neutral particles. |
| | Neutron Detector | An instrument that measures the number and/or energy distribution of neutrons. |

| Name: type *Deprecated* | | Version Id: 1.0.0.0 |
|--------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Particle Detector | An instrument that detects and/or measures charged particles. |
| | Photometer | An instrument that measures radiation intensity (e.g., of visible light), sometimes with the goal of inferring optical properties of materials. |
| | Plasma Analyzer | An instrument that measures the spectral distribution of energy in a low-frequency plasma. |
| | Plasma Detector | An instrument that detects and/or measures low energy charged particles. |
| | Plasma Wave Spectrometer | An instrument that measures the energy distribution in a low-frequency plasma. |
| | Polarimeter | An instrument used to measure the angle of rotation caused by passing polarized electromagnetic radiation through an optically active substance. |
| | Radar | An instrument that transmits and receives radio signals for the purpose of detecting, determining the range (distance) to, velocity of, and/or direction of one or more distant targets. |
| | Radio Science | An instrument suite used to conduct measurements at radio frequencies. |
| | Radio Spectrometer | An instrument that measures the spectral distribution of electromagnetic radiation at radio frequencies. |
| | Radio Telescope | An instrument used to focus and capture radio waves. |
| | Radio-Radar | An instrument used to conduct measurements at radio frequencies. |
| | Radiometer | An instrument which measures the radiant flux of electromagnetic radiation. |
| | Reflectometer | An instrument that measures the reflectance of surfaces. An electron reflectometer measures the properties of electrons trapped along magnetic field lines to infer the strength and direction of the field remotely. |
| | Regolith Properties | A top level category for the science instruments associated with the Geosciences. |
| | Robotic Arm | A tool used to place in-situ instruments on surface rocks or soil, dig into a surface, and/or to collect surface samples for other instruments to analyze on a spacecraft. |
| | Seismometer | An instrument that measure motion of the ground. |
| | Small Bodies Sciences | A top level category for the science instruments associated with Small Bodies. |
| | Spectrograph | An instrument that separates light into a frequency spectrum and records the signal using a camera. |
| | Spectrograph Imager | See Imaging Spectrometer. |

| Name: type *Deprecated* | | Version Id: 1.0.0.0 |
|--------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Spectrometer | An instrument that measures a spectrum, reporting intensity as a function of wavelength, frequency, energy, momentum, or mass. |
| | Thermal Imager | An instrument that captures an image at thermal infrared wavelengths. |
| | Thermal Probe | An in situ instrument that measures thermal properties (e.g., temperature) at one or more points along its length. |
| | Thermometer | An instrument that measures temperature. |
| | Ultraviolet Spectrometer | An instrument that measures the spectral distribution of ultraviolet radiation. |
| | Weather Station | An instrument that collects data for the scientific study of weather and weather-related phenomena such as (but not limited to) temperature, pressure, wind speed, wind direction, etc. |
| | Wet Chemistry Laboratory | An instrument that mixes soil samples with solutions to measure material properties such as pH, conductivity, oxidation-reduction potential, etc. |
| | X-ray Detector | An instrument that detects and/or measures X-rays. |
| | X-ray Diffraction Spectrometer | An instrument that uses a beam of X-rays to probe the internal structure of a powdered sample and identify its mineral composition. |
| | X-ray Fluorescence Spectrometer | An instrument that measures the emission of secondary X-rays to determine the elemental composition of a sample that has been irradiated with primary X-rays. |

type in Instrument_Host

| Name: type | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the instrument host. When more than one value is correct, the value with the finest granularity should be selected. That is, choose "rover" rather than "spacecraft" when both would be correct since rover more narrowly defines the type of instrument host. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Aircraft | An airborne observatory carried on a powered, heavier than air vessel supporting observations, measurements, and scientific experiments during flight. | |
| | Balloon | A balloon-borne observatory, typically consisting of a gondola structure carrying one or more telescopes and instruments, borne aloft by an un- | |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | powered or minimally powered lighter-than-atmosphere balloon for a limited observing period. |
| | Earth Based - *Deprecated* | The Instrument Host is classified as being of type Earth Based |
| | Earth-based | The instrument host is on or near the surface of Earth (no more than 100 km altitude above the surface). |
| | Lander | A spacecraft designed for descent to and operation at a single fixed point on the surface of a celestial body. |
| | Rover | A spacecraft designed for descent to and mobile operation on the surface of a celestial body. |
| | Spacecraft | A vehicle designed for travel in outer space ('outer space' is the region more than 100 km above the Earth's surface, a convention accepted in many contexts -- see http://en.wikipedia.org/wiki/Outer_space). |
| | Suborbital Rocket | A Suborbital Rocket is an instrument-carrying rocket designed to take measurements and perform scientific experiments during its sub-orbital flight. |

type in Investigation

| Name: type | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the investigation according to its scope. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Field Campaign | A set of experiments and/or observations with a clearly defined purpose that is coordinated among one or more individuals and/or one or more organizations. The campaign is characterized primarily by its in situ terrestrial field work. | |
| | Individual Investigation | A set of experiments and/or observations with a clearly defined purpose that is under the direction of a single individual. For example, a series of related laboratory experiments/observations conducted by a small university team and funded through a single proposal could be an Individual Investigation. Library research by one person on previously published results to distill common conclusions could also be an Individual Investigation. | |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Mission | A set of experiments and/or observations with a clearly defined purpose that is under the direction of an organization (such as a national space agency) and uses one or more vehicles of similar design. A mission is usually conducted by a national or international space agency using a small number (often one) of spacecraft especially designed and built for the purpose. For example: (1) the NASA Voyager mission launched two spacecraft to Jupiter and Saturn; (2) the Deep Impact (DI) mission launched a spacecraft, part of which impacted the comet Tempel 2; and (3) the EPOXI mission redefined the objectives of the surviving DI hardware for further exploration of the solar system. |
| | Observing Campaign | A set of experiments and/or observations with a clearly defined purpose that is coordinated among one or more individuals and/or one or more organizations. The campaign is characterized primarily by its remote sensing observations. For example, the International Halley Watch mobilized observatories around the world for collection of data during the most recent apparition of Comet Halley. The Shoemaker-Levy-9 (SL9) campaign used both Earth-based and spacecraft instruments to monitor the SL9 impact on Jupiter. |
| | Other Investigation | Any other set of experiments and/or observations with a unifying theme. |

type in Investigation_Area

| Name: type | Version Id: 1.0.0.0 | | |
|--------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies Investigation_Area according to the scope of the investigation.. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Investigation_Area | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Individual Investigation | A set of experiments and/or observations with a clearly defined purpose that uses existing facilities and is under the direction of a single individual. For example, a series of related laboratory experiments/observations conducted by a small university team and funded through a single proposal could be an Individual Investigation. Library research by one person on previ- | |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | ously published results to distill common conclusions could also be an Individual Investigation. |
| | Mission | A set of experiments and/or observations with a clearly defined purpose that occupies the designated resources for all (or at least a significant fraction) of the available time. A mission is usually conducted by a national or international space agency using a small number (often one) of spacecraft especially designed and built for the purpose. For example: (1) the NASA Voyager mission launched two spacecraft to Jupiter and Saturn; (2) the Deep Impact (DI) mission launched a spacecraft, part of which impacted the comet Tempel 2; and (3) the EPOXI mission redefined the objectives of the surviving DI hardware for further exploration of the solar system. |
| | Observing Campaign | A set of experiments and/or observations with a clearly defined purpose that uses (primarily) existing facilities, but not exclusively. After (and possibly during) the campaign other investigations are carried out using the same facilities. For example, the International Halley Watch mobilized observatories around the world for collection of data during the most recent apparition of Comet Halley. The Shoemaker-Levy-9 (SL9) campaign used both Earth-based and spacecraft instruments to monitor the SL9 impact on Jupiter. |
| | Other Investigation | Any other set of experiments and/or observations with a unifying theme. |

type in Observing_System_Component

| Name: type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the observing system component according to its function. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Observing_System_Component | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | Airborne - *Deprecat-ed* | The physical object that transports a platform by or through air. | |
| | Aircraft | An airborne observatory carried on a powered, heavier than air vessel supporting observations, | |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | measurements, and scientific experiments during flight. |
| | Artificial Illumination | The observing system component provides artificial illumination |
| | Balloon | A balloon-borne observatory, typically consisting of a gondola structure carrying one or more telescopes and instruments, borne aloft by an unpowered or minimally powered lighter-than-atmosphere balloon for a limited observing period. |
| | Computer | The observing system component is a processor embedded in the observing configuration, that manipulates or regulates the data prior to down-link. |
| | Facility | The observing system component is a facility. |
| | Instrument | The observing system component is an instrument |
| | Laboratory | The observing system component is a laboratory |
| | Literature Search | The observing system component is a literature search |
| | Naked Eye | The observing system component is the unaided eye of a person |
| | Observatory | The observing system component is an observatory |
| | Spacecraft | The observing system component is a spacecraft |
| | Suborbital Rocket | A Suborbital Rocket is an instrument-carrying rocket designed to take measurements and perform scientific experiments during its sub-orbital flight. |
| | Telescope | The observing system component is a telescope |

type in Primary_Result_Summary *Deprecated*

| Name: type *Deprecated* | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Primary_Result_Summary |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Type:</i> ASCII_Short_String_Collapsed <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Altimetry | Measurement of altitude. |
| | Astrometry | Precise measurement of positions of heavenly bodies. |

| Name: type *Deprecated* | | Version Id: 1.0.0.0 |
|--------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Count | A recording of the number of discrete events |
| | E/B-Field Vectors | Arrays populated by values of the electric/magnetic field in three orthogonal directions. |
| | Gravity Model | An approximation to the gravity field of an object derived from measurement and/or theory |
| | Image | A two-dimensional representation of a field of view |
| | Lightcurves | This value indicates data products containing time-sequences of magnitude measurements for one or more individual targets (typically asteroids or comets). |
| | Map | A two-dimensional representation of the plan view of a surface |
| | Meteorology | Measurements of the meteorological conditions of an atmosphere such as pressure, temperature, wind speed, etc. |
| | Null Result | Measurements which failed. |
| | Occultation | Measurements conducted when one celestial body progressively hides another |
| | Photometry | Measurement of light flux |
| | Physical Parameters | This value indicates data products containing compilations of one or more physical parameters - like albedo, density, absolute magnitude, etc. It is generally used for data that combines these highly-derived results from multiple sources. |
| | Polarimetry | Measurement of the polarization state of radiation. |
| | Radiometry | Measurement of the radiation coming from a body, usually at infrared and longer wavelengths |
| | Reference | A Reference product provides ancillary information needed to support the use of another data product. Reference products include things like tables of foot notes or lists of detailed citations, and are usually associated with data products compiled from the published literature. |
| | Shape Model | An approximation to the shape of an object derived from measurements and/or theory |
| | Spectrum | An array containing values of a dependent variable as a function of an independent variable. |

type in Quaternion

| Name: type | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|
| <i>Description:</i> The type attribute classifies the quaternion according to how its elements are stored and used. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Quaternon <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | SPICE | The quaternion has components zero through three, with the 0th component being the scalar, and the 1st, 2nd and 3rd being the vector components. | |
| | Spacecraft Telemetry | The quaternion has components one through four, with the 4th component being the scalar, and the 1st, 2nd and 3rd being the vector components. | |

type in Resource

| Name: type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the Resource according to its function. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Resource | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Information.Agency | The web resource provides information about an agency. | |
| | Information.Instrument | The web resource provides information about an instrument | |
| | Information.Instrument_Host | The web resource provides information about an instrument host | |
| | Information.Investigation | The web resource provides information about an investigation | |
| | Information.Node | The web resource provides information about a node | |
| | Information.Person | The web resource provides information about a person | |
| | Information.Resource | The web resource provides information about a generic resource | |
| | Information.Science_Portal | The web resource provides information about a science portal | |
| | Information.Target | The web resource provides information about a target | |
| | System.Browse | The system resource provides browse functionality. | |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|--------------------------|------------------------------------------------------------|
| | System.Directory_Listing | The system resource provides a directory listing. |
| | System.Registry_Query | The system resource provides registry query functionality. |
| | System.Search | The system resource provides search functionality. |
| | System.Transform | The system resource provides transform functionality. |
| | System.Transport | The system resource provides transport functionality. |

type in Target

| Name: type | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The type attribute classifies a target according to its size and properties. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Target |
| | | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| | | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| | | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Asteroid | The target is classified as an asteroid |
| | Calibration - *Deprecated* | The Target is classified as calibration |
| | Calibration Field | This type indicates a star field observed to be used for calibration purposes. Typically, this will correspond to a field defined in a published work like the Landolt photometric catalog. |
| | Calibrator | This type indicates a piece of equipment specifically designed to generate a signal to be used for calibration. |
| | Centaur | The target is classified as a Centaur. A Centaur is a minor planet orbiting beyond the orbit of Jupiter and interior to the orbit of Neptune. Its semimajor axis range is greater than 5.4 AU and less than 30.1 AU. |
| | Comet | The target is classified as a comet |
| | Dust | The target is classified as dust |
| | Dwarf Planet | The target is classified as a dwarf planet |
| | Equipment | Target is classified as a part of the host space-craft or another (human) artifact |
| | Exoplanet System | This type indicates a target that is a star or stellar system (binary, trinary, etc.) with a known or suspected planetary system around it. |
| | Galaxy | The target is classified as a galaxy |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Globular Cluster - *Deprecated* | The target is classified as a globular cluster |
| | Laboratory Analog | The target is classified as a laboratory analog approximating a planetary environment. |
| | Lunar Sample - *Deprecated* | The target is a sample collected on the Earth's Moon |
| | Magnetic Field | The target is classified as a magnetic field. |
| | Meteorite - *Deprecated* | The target is classified as a meteorite |
| | Meteoroid | The target is classified as a meteoroid |
| | Meteoroid Stream | The target is classified as a meteoroid stream |
| | Nebula | The target is classified as a nebula |
| | Open Cluster - *Deprecated* | The target is classified as an open cluster |
| | Planet | The target is classified as a planet |
| | Planetary Nebula | The target is classified as a planetary nebula |
| | Planetary System | This type indicates a target consisting of a primary body and its satellite(s), ring(s), or similarly associated objects. For example: Saturn and its rings, Jupiter and its moons, etc. |
| | Plasma Cloud | The target is classified as a plasma cloud |
| | Plasma Stream | Target is classified as a plasma stream. |
| | Ring | The target is classified as a ring |
| | Sample | The target is classified as a physical sample representative of a larger whole. Samples may include but are not confined to rocks, minerals, fluids, or synthetic approximations of those types of materials. |
| | Satellite | The target is classified as a satellite |
| | Star | The target is classified as a star |
| | Star Cluster | The target is classified as a star cluster |
| | Synthetic Sample - *Deprecated* | The target is a sample created in a laboratory. |
| | Terrestrial Sample - *Deprecated* | The target is classified as a terrestrial sample |
| | Trans-Neptunian Object | The target is classified as a trans-Neptunian object |

type in Target_Identification

| Name: type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|
| <i>Description:</i> The type attribute classifies a target according to its size and properties so that correct nomenclature can be applied. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Target_Identification <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: type | | | Version Id: 1.0.0.0 |
|-----------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Asteroid | The target is classified as an asteroid | |
| | Calibration - *Deprecated* | The Target is classified as calibration | |
| | Calibration Field | This type indicates a star field observed to be used for calibration purposes. Typically, this will correspond to a field defined in a published work like the Landolt photometric catalog. | |
| | Calibrator | This type indicates a piece of equipment specifically designed to generate a signal to be used for calibration. | |
| | Centaur | The target is classified as a Centaur. A Centaur is a minor planet orbiting beyond the orbit of Jupiter and interior to the orbit of Neptune. Its semimajor axis range is greater than 5.4 AU and less than 30.1 AU. | |
| | Comet | The target is classified as a comet | |
| | Dust | The target is classified as dust | |
| | Dwarf Planet | The target is classified as a dwarf planet | |
| | Equipment | Target is classified as a part of the host space-craft or another (human) artifact | |
| | Exoplanet System | This type indicates a target that is a star or stellar system (binary, trinary, etc.) with a known or suspected planetary system around it. | |
| | Galaxy | The target is classified as a galaxy | |
| | Globular Cluster - *Deprecated* | The target is classified as a globular cluster | |
| | Laboratory Analog | The target is classified as a laboratory analog approximating a planetary environment. | |
| | Lunar Sample - *Deprecated* | The target is a sample collected on the Earth's Moon | |
| | Magnetic Field | The target is classified as a magnetic field. | |
| | Meteorite - *Deprecated* | The target is classified as a meteorite | |
| | Meteoroid | The target is classified as a meteoroid | |
| | Meteoroid Stream | The target is classified as a meteoroid stream | |
| | Nebula | The target is classified as a nebula | |
| | Open Cluster - *Deprecated* | The target is classified as an open cluster | |
| | Planet | The target is classified as a planet | |
| | Planetary Nebula | The target is classified as a planetary nebula | |

| Name: type | | Version Id: 1.0.0.0 |
|-------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Planetary System | This type indicates a target consisting of a primary body and its satellite(s), ring(s), or similarly associated objects. For example: Saturn and its rings, Jupiter and its moons, etc. |
| | Plasma Cloud | The target is classified as a plasma cloud |
| | Plasma Stream | Target is classified as a plasma stream. |
| | Ring | The target is classified as a ring |
| | Sample | The target is classified as a physical sample representative of a larger whole. Samples may include but are not confined to rocks, minerals, fluids, or synthetic approximations of those types of materials. |
| | Satellite | The target is classified as a satellite |
| | Star | The target is classified as a star |
| | Star Cluster | The target is classified as a star cluster |
| | Synthetic Sample - *Deprecated* | The target is a sample created in a laboratory |
| | Terrestrial Sample - *Deprecated* | The target is classified as a terrestrial sample |
| | Trans-Neptunian Object | The target is classified as a trans-Neptunian object |

type in Unit_Of_Measure

| Name: type | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------|-----------------------|-----------------------------|------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Unit_Of_Measure | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | | No Values | |

type in Units_of_Acceleration

| Name: type | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|------------------------------------|
| <i>Description:</i> The type attribute classifies the units of acceleration according to the quantity (acceleration) being measured. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Acceleration | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------|-----------------|-------------------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Acceleration | Units_of_Acceleration is classified as being of type Acceleration | |

type in Units_of_Amount_Of_Substance

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------|------------------------------------|
| <i>Description:</i> The type attribute classifies the units of amount of substance according to the quantity being measured (amount of substance). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Amount_Of_Substance | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Amount_Of_Substance | Units_of_Amount_Of_Substance is classified as being of type Amount_Of_Substance | |

type in Units_of_Angle

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------|------------------------------------|
| <i>Description:</i> The type attribute classifies the units of angle according to the quantity being measured (angle). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Angle | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | Angle | Units_of_Angle is classified as being of type Angle | |

type in Units_of_Angular_Velocity

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|------------------------------------|
| <i>Description:</i> The type attribute classifies the units of angular velocity according to the quantity being measured (angular velocity). | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Angular_Velocity | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |

| Name: type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Angular_Velocity | Units_of_Angular_Velocity is classified as being of type Angular_Velocity | |

type in Units_of_Area

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the units of area according to the quantity being measured (area). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Area | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Area | Units_of_Area is classified as being of type Area | |

type in Units_of_Current

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the units of current according to the quantity being measured (current). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Current | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Current | Units_of_Current is classified as being of type Current | |

type in Units_of_Energy

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|----------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Energy | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Energy | Units_of_Energy is classified as being of type Energy | |

type in Units_of_Frame_Rate

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the units of frame rate according to the quantity being measured (frame rate). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Frame_Rate | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Frame_Rate | Units_of_Frame_Rate is classified as being of type Frame Rate | |

type in Units_of_Frequency

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the units of frequency according to the quantity being measured (frequency). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Frequency | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Frequency | Units_of_Frequency is classified as being of type Frequency | |

type in Units_of_Length

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies the units of length according to the quantity being measured (length). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Length | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Length | Units_of_Length is classified as being of type Length | |

type in Units_of_Map_Scale *Deprecated*

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Map_Scale *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Scale | Units_of_Map_Scale is classified as being of type Scale | |

type in Units_of_Mass

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of mass according to the quantity being measured (mass). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Mass | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Mass | Units_of_Mass is classified as being of type Mass | |

type in Units_of_Misc

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |

| Name: type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Misc | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Miscellaneous | Units_of_Misc is classified as being of type Miscellaneous | |

type in Units_of_None

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_None | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | None | Units_of_None is classified as being of type None | |

type in Units_of_Optical_Path_Length

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of optical path length according to the quantity being measured (optical path length). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Optical_Path_Length | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Optical_Path_Length | Units_of_Optical_Path_Length is classified as being of type Optical_Path_Length | |

type in Units_of_Pixel_Resolution_Angular

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |

| Name: type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Resolution_Angular | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Resolution | Units_of_Pixel_Resolution_Angular is classified as being of type Resolution. | |

type in Units_of_Pixel_Resolution_Linear

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Resolution_Linear | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Resolution | Units_of_Pixel_Resolution_Linear is classified as being of type Resolution | |

type in Units_of_Pixel_Resolution_Map

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> cart | <i>Class Name:</i> Units_of_Pixel_Resolution_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Resolution | Units_of_Pixel_Resolution_Map is classified as being of type Resolution. | |

type in Units_of_Pixel_Scale_Angular

| <i>Name:</i> type | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Scale_Angular | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Scale | Units_of_Pixel_Scale_Angular is classified as being of type Scale. | |

type in Units_of_Pixel_Scale_Linear

| <i>Name:</i> type | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Scale_Linear | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Scale | Units_of_Pixel_Scale_Linear is classified as being of type Scale. | |

type in Units_of_Pixel_Scale_Map

| <i>Name:</i> type | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> cart | <i>Class Name:</i> Units_of_Pixel_Scale_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Scale | Units_of_Pixel_Scale_Map is classified as being of type Scale. | |

type in Units_of_Pressure

| Name: type | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of pressure according to the quantity being measured (pressure). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pressure | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Pressure | Units_of_Pressure is classified as being of type Pressure | |

type in Units_of_Radiance

| Name: type | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of radiance according to the quantity being measured (radiance). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Radiance | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Radiance | Units_of_Radiance is classified as being of type Radiance | |

type in Units_of_Rates

| Name: type | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute provides a classification for the resource. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Rates | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Rates | Units_of_Rates is classified as being of type Rates | |

type in Units_of_Solid_Angle

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of solid angle according to the quantity being measured (solid angle). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Solid_Angle | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Solid_Angle | Units_of_Solid_Angle is classified as being of type Solid_Angle | |

type in Units_of_Spectral_Irradiance

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of spectral irradiance according to the quantity being measured (spectral irradiance). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Spectral_Irradiance | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Spectral_Irradiance | Units_of_Spectral_Irradiance is classified as being of the type Spectral_Irradiance | |

type in Units_of_Spectral_Radiance

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of spectral radiance according to the quantity being measured (spectral radiance). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Spectral_Radiance | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Spectral_Radiance | Units_of_Spectral_Radiance is classified as being of the type Spectral_Radiance | |

type in Units_of_Storage

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of storage according to the quantity being measured (storage). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Storage | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Storage | Units_of_Storage is classified as being of type Storage | |

type in Units_of_Temperature

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of temperature according to the quantity being measured (temperature). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Temperature | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Temperature | Units_of_Temperature is classified as being of type Temperature | |

type in Units_of_Time

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of time according to the quantity being measured (time). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Time | Units_of_Time is classified as being of type Time | |

type in Units_of_Velocity

| Name: type | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of velocity according to the quantity being measured (velocity). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Velocity | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Velocity | Units_of_Velocity is classified as being of type Velocity | |

type in Units_of_Voltage

| Name: type | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of voltage according to the quantity being measured (voltage). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Voltage | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Voltage | Units_of_Voltage is classified as being of type Voltage | |

type in Units_of_Volume

| Name: type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of volume according to the quantity being measured (volume). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Volume | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Volume | Units_of_Volume is classified as being of the type Volume | |

type in Units_of_Wavenumber

| <i>Name:</i> type | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies units of wavenumber according to the quantity being measured (wavenumber). | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Wavenumber | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Wavenumber | Units_of_Wavenumber is classified as being of the type Wavenumber | |

type in Vector

| <i>Name:</i> type | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The type attribute classifies Vector according to the meaning of its contents. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Acceleration | Vector contains the components of an acceleration | |
| | Pointing | Vector contains the components of a direction | |
| | Position | Vector contains the components of a position | |
| | Velocity | Vector contains the components of a velocity | |

type_description in Composite_Structure

| <i>Name:</i> type_description | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The type_description attribute provides a description of the object's type. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Composite_Structure | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

unit in Axis_Array *Deprecated*

| Name: unit *Deprecated* | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Axis_Array | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

unit in Element_Array

| Name: unit | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|----------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Element_Array | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

unit in Field_Binary

| Name: unit | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|---------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Binary | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

unit in Field_Bit

| Name: unit | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|---------------------|------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> UTF8_Short_String_Collapsed |

| Name: unit | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

unit in Field_Character

| Name: unit | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

unit in Field_Delimited

| Name: unit | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

unit in Vector_Component

| Name: unit | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------------------|
| <i>Description:</i> The unit attribute provides the unit of measurement. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Component | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Unit | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

unit_id in Unit_of_Measure

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Unit_Of_Measure | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

unit_id in Units_of_Acceleration

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Acceleration | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | cm/s**2 | The abbreviated unit for Units_of_Acceleration is cm/s**2 | |
| | km/s**2 | The abbreviated unit for Units_of_Acceleration is km/s**2 | |
| | m/s**2 | The abbreviated unit for Units_of_Acceleration is m/s**2 | |

unit_id in Units_of_Amount_Of_Substance

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Amount_Of_Substance | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |

| Name: unit_id | | Version Id: 1.0.0.0 |
|----------------------|-----|--------------------------------------------------------------|
| | mol | The abbreviated unit for Units_of_Amount_Of_Substance is mol |

unit_id in Units_of_Angle

| Name: unit_id | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------|-----------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Angle | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | arcmin | The abbreviated unit for Units_of_Angle is arcmin | |
| | arcsec | The abbreviated unit for Units_of_Angle is arcsec | |
| | deg | The abbreviated unit for Units_of_Angle is deg | |
| | hr | The abbreviated unit for Units_of_Angle is hr | |
| | mrad | The abbreviated unit for Units_of_Angle is mrad | |
| | rad | The abbreviated unit for Units_of_Angle is rad | |

unit_id in Units_of_Angular_Velocity

| Name: unit_id | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------|-----------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Units_of_Angular_Velocity | Type: UTF8_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: ID | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | deg/day | The abbreviated unit for Units_of_Angular_Velocity is deg/day | |
| | deg/s | The abbreviated unit for Units_of_Angular_Velocity is deg/s | |
| | rad/s | The abbreviated unit for Units_of_Angular_Velocity is rad/s | |

unit_id in Units_of_Area

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Area | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | m**2 | The abbreviated unit for Units_of_Area is m**2 | |

unit_id in Units_of_Current

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Current | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | A | The abbreviated unit for Units_of_Current is A | |
| | mA | The abbreviated unit for Units_of_Current is mA | |

unit_id in Units_of_Energy

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Energy | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | J | The abbreviated unit for joules in Units_of_Energy. | |

| Name: unit_id | | Version Id: 1.0.0.0 |
|----------------------|-----|----------------------------------------------------------------|
| | MeV | The abbreviated unit for megaelectronvolts in Units_of_Energy. |
| | eV | The abbreviated unit for electronvolts in Units_of_Energy. |
| | keV | The abbreviated unit for kiloelectronvolts Units_of_Energy. |

unit_id in Units_of_Frame_Rate

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Frame_Rate |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | frames/s | The abbreviated unit for Units_of_Frame_Rate is frames/s |

unit_id in Units_of_Frequency

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Frequency |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Hz | The abbreviated unit for Units_of_Frequency is Hz |

unit_id in Units_of_Length

| Name: unit_id | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string that serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Length |
| | | <i>Type:</i> UTF8_Short_String_Collapsed |

| Name: unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | AU | The abbreviated unit for Units_of_Length is AU (astronomical unit) | |
| | Angstrom | The abbreviated unit for Units_of_Length is Angstrom | |
| | cm | The abbreviated unit for Units_of_Length is cm | |
| | km | The abbreviated unit for Units_of_Length is km | |
| | m | The abbreviated unit for Units_of_Length is m | |
| | micrometer | The abbreviated unit for Units_of_Length is micrometer (10-6 m) | |
| | mm | The abbreviated unit for Units_of_Length is mm (10-3 m) | |
| | nm | The abbreviated unit for Units_of_Length is nm (10-9 m) | |

unit_id in Units_of_Map_Scale *Deprecated*

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Map_Scale *Deprecated* | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | km/pixel | The abbreviated unit for Units_of_Map_Scale is km/pixel | |
| | m/pixel | The abbreviated unit for Units_of_Map_Scale is m/pixel | |
| | mm/pixel | The abbreviated unit for Units_of_Map_Scale is mm/pixel | |
| | pixel/deg | The abbreviated unit for Units_of_Map_Scale is pixel/deg | |

unit_id in Units_of_Mass

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Mass | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | g | The abbreviated unit for Units_of_Mass is g | |
| | kg | The abbreviated unit for Units_of_Mass is kg | |

unit_id in Units_of_Misc

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Misc | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | DN | The abbreviated unit for Units_of_Misc is DN | |
| | electron/DN | The abbreviated unit for Units_of_Misc is electron/DN | |
| | pixel | The abbreviated unit for Units_of_Misc is pixel | |

unit_id in Units_of_None

| Name: unit_id | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string that serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_None | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: unit_id | | Version Id: 1.0.0.0 |
|-----------------------------|--------------|---------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | none | Dimensionless quantities have no abbreviated unit |

unit_id in Units_of_Optical_Path_Length

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Optical_Path_Length |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | airmass | The abbreviated unit for Units_of_Optical_Path_Length is airmass |

unit_id in Units_of_Pixel_Resolution_Angular

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Resolution_Angular |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | arcsec/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Angular is arcsec/pixel |
| | deg/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Angular is deg/pixel |
| | radian/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Angular is radian/pixel |

unit_id in Units_of_Pixel_Resolution_Linear

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |

| Name: unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Resolution_Linear | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |
| | | km/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Linear is km/pixel |
| | | m/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Linear is m/pixel |
| | | mm/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Linear is mm/pixel |

unit_id in Units_of_Pixel_Resolution_Map

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> cart | <i>Class Name:</i> Units_of_Pixel_Resolution_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |
| | | deg/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is deg/pixel where 'deg' is interpreted as a surface distance measured in degrees of latitude or longitude |
| | | km/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is km/pixel |
| | | m/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is m/pixel |
| | | mm/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is mm/pixel |

unit_id in Units_of_Pixel_Scale_Angular

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Scale_Angular | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: unit_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------------------------------------|--------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | pixel/arcsec | The abbreviated unit for Units_of_Pixel_Scale_Angular is pixel/arcsec | |
| | pixel/deg | The abbreviated unit for Units_of_Pixel_Scale_Angular is pixel/deg | |
| | pixel/radian | The abbreviated unit for Units_of_Pixel_Scale_Angular is pixel/radian | |

unit_id in Units_of_Pixel_Scale_Linear

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pixel_Scale_Linear | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | pixel/km | The abbreviated unit for Units_of_Pixel_Scale_Linear is pixel/km | |
| | pixel/m | The abbreviated unit for Units_of_Pixel_Scale_Linear is pixel/m | |
| | pixel/mm | The abbreviated unit for Units_of_Pixel_Scale_Linear is pixel/mm | |

unit_id in Units_of_Pixel_Scale_Map

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> cart | <i>Class Name:</i> Units_of_Pixel_Scale_Map | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| Name: unit_id | | Version Id: 1.0.0.0 |
|----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | pixel/deg | The abbreviated unit for Units_of_Pixel_Scale_Map is pixel/deg where 'deg' is interpreted as a surface distance measured in degrees of latitude or longitude |

unit_id in Units_of_Pressure

| Name: unit_id | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Pressure | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | Pa | The abbreviated unit for Units_of_Pressure is Pa | |
| | bar | The abbreviated unit for Units_of_Pressure is bar (10**5 Pa) | |
| | hPa | The abbreviated unit for Units_of_Pressure is hPa (100 Pa) | |
| | mbar | The abbreviated unit for Units_of_Pressure is mbar (100 Pa) | |

unit_id in Units_of_Radiance

| Name: unit_id | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string that serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Radiance | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | W*m**-2*sr**-1 - *Deprecated* | The abbreviated unit of Units_of_Radiance is W*m**-2*sr**-1 | |
| | W/(m**2*sr) | The abbreviated unit of Units_of_Radiance is W/(m**2*sr) | |

unit_id in Units_of_Rates

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Rates | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | counts/bin | The abbreviated unit for Units_of_Rates is counts/bin | |
| | kilobits/s | The abbreviated unit for Units_of_Rates is kilobits/s | |

unit_id in Units_of_Solid_Angle

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Solid_Angle | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | sr | The abbreviated unit for Units_of_Solid_Angle is sr | |

unit_id in Units_of_Spectral_Irradiance

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Spectral_Irradiance | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |

| Name: unit_id | | Version Id: 1.0.0.0 |
|----------------------|---------------------------------|---------------------------------------------------------------------------|
| | SFU - *Deprecated* | The abbreviated unit for Units_of_Spectral_Irradiance is SFU |
| | W*m**-2*Hz**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Irradiance is W*m**-2*Hz**-1 |
| | W*m**-2*nm**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Irradiance is W*m**-2*nm**-1 |
| | W*m**-3 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Irradiance is W*m**-3 |
| | W/m**2/Hz | The abbreviated unit of Units_of_Spectral_Irradiance is W/m**2/Hz |
| | W/m**2/nm | The abbreviated unit of Units_of_Spectral_Irradiance is W/m**2/nm |
| | W/m**3 | The abbreviated unit of Units_of_Spectral_Irradiance is W/m**3 |
| | uW*cm**-2*um**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Irradiance is uW*cm**-2*um**-1 |
| | μW/cm**2/μm | The abbreviated unit for Units_of_Spectral_Radiance is μW/cm**2/μm |

unit_id in Units_of_Spectral_Radiance

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Spectral_Radiance |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | W*m**-2*s-r**-1*Hz**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-2*s-r**-1*Hz**-1 |
| | W*m**-2*sr**-1*nm**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-2*sr**-1*nm**-1 |
| | W*m**-2*s-r**-1*um**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-2*s-r**-1*um**-1 |
| | W*m**-3*sr**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-3*sr**-1 |
| | W/m**2/sr/Hz | The abbreviated unit of Units_of_Spectral_Radiance is W/m**2/sr/Hz |
| | W/m**2/sr/nm | The abbreviated unit of Units_of_Spectral_Radiance is W/m**2/sr/nm |

| Name: unit_id | | Version Id: 1.0.0.0 |
|----------------------|-----------------------------------------|-------------------------------------------------------------------------------|
| | W/m**2/sr/μm | The abbreviated unit for Units_of_Spectral_Radiance is W/m**2/sr/μm |
| | W/m**3/sr | The abbreviated unit of Units_of_Spectral_Radiance is W/m**3/sr |
| | uW*cm**-2*s-r**-1*um**-1 - *Deprecated* | The abbreviated unit for Units_of_Spectral_Radiance is uW*cm**-2*s**-1*um**-1 |
| | μW/cm**2/sr/μm | The abbreviated unit for Units_of_Spectral_Radiance is μW/cm**2/sr/μm |

unit_id in Units_of_Storage

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Storage |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | byte | The abbreviated unit of Units_of_Storage is byte |

unit_id in Units_of_Temperature

| Name: unit_id | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Temperature |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | K | The abbreviated unit of Units_of_Temperature is K |
| | degC | The abbreviated unit of Units_of_Temperature is degC |

unit_id in Units_of_Time

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Time | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | day | The abbreviated unit for Units_of_Time is day | |
| | hr | The abbreviated unit for Units_of_Time is hr | |
| | julian day | The abbreviated unit for Units_of_Time is julian day | |
| | microseconds | The abbreviated unit for Units_of_Time is microseconds | |
| | min | The abbreviated unit for Units_of_Time is min | |
| | ms | The abbreviated unit for Units_of_Time is ms | |
| | s | The abbreviated unit for Units_of_Time is s | |
| | yr | The abbreviated unit for Units_of_Time is yr | |

unit_id in Units_of_Velocity

| Name: unit_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Velocity | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | cm/s | The abbreviated unit for Units_of_Velocity is cm/s | |
| | km/s | The abbreviated unit for Units_of_Velocity is km/s | |
| | m/s | The abbreviated unit for Units_of_Velocity is m/s | |

unit_id in Units_of_Voltage

| Name: unit_id | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Voltage | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |
| | | V | The abbreviated unit for Units_of_Voltage is V |
| | | mV | The abbreviated unit for Units_of_Voltage is mV |

unit_id in Units_of_Volume

| Name: unit_id | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|--------------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string which serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Volume | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |
| | | L | The abbreviated unit for Units_of_Volume is L |
| | | m**3 | The abbreviated unit for Units_of_Volume is m**3 |

unit_id in Units_of_Wavenumber

| Name: unit_id | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|------------------------------------------|
| <i>Description:</i> The unit_id attribute provides a character or character string that serves as an abbreviation for, or symbol representing, a unit of measure. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Units_of_Wavenumber | <i>Type:</i> UTF8_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value</i> | <i>Value Meaning</i> |

| Name: unit_id | | Version Id: 1.0.0.0 |
|----------------------|-----------------------|--------------------------------------------------------|
| | 1/cm | The abbreviated unit of Units_of_Wavenumber is 1/cm |
| | 1/m | The abbreviated unit of Units_of_Wavenumber is 1/m |
| | 1/nm | The abbreviated unit of Units_of_Wavenumber is 1/nm |
| | cm**-1 - *Deprecated* | The abbreviated unit for Units_of_Wavenumber is cm**-1 |
| | m**-1 - *Deprecated* | The abbreviated unit for Units_of_Wavenumber is m**-1 |
| | nm**-1 - *Deprecated* | The abbreviated unit for Units_of_Wavenumber is nm**-1 |

unit_of_measure_type in DD_Value_Domain

| Name: unit_of_measure_type | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The unit_of_measure_type attribute identifies the class from which the attribute being defined in this data dictionary draws its possible expressions for units. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Units_of_Acceleration | The attribute being defined uses one of the values of unit_id listed in class Units_of_Acceleration. |
| | Units_of_Amount_Of_Substance | The attribute being defined uses one of the values of unit_id listed in class Units_of_Amounts_of_Substance |
| | Units_of_Angle | The attribute being defined uses one of the values of unit_id listed in class Units_of_Angle |
| | Units_of_Angular_Velocity | The attribute being defined uses one of the values of unit_id listed in class Units_of_Angular_Velocity |
| | Units_of_Area | The attribute being defined uses one of the values of unit_id listed in class Units_of_Area |
| | Units_of_Current | The attribute being defined uses one of the values of unit_id listed in class Units_of_Current |
| | Units_of_Energy | The attribute being defined uses one of the values of unit_id listed in class Units_of_Energy |
| | Units_of_Frame_Rate | The attribute being defined uses one of the values of unit_id listed in class Units_of_Frame_Rate |
| | Units_of_Frequency | The attribute being defined uses one of the values of unit_id listed in class Units_of_Frequency |

| Name: unit_of_measure_type | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| | Units_of_Length | The attribute being defined uses one of the values of unit_id listed in class Units_of_Length |
| | Units_of_Map_Scale | The attribute being defined uses one of the values of unit_id listed in class Units_of_Map_Scale |
| | Units_of_Mass | The attribute being defined uses one of the values of unit_id listed in class Units_of_Mass |
| | Units_of_Misc | The attribute being defined uses one of the values of unit_id listed in class Units_of_Misc |
| | Units_of_None | The attribute being defined is dimensionless. |
| | Units_of_Optical_Path_Length | The attribute being defined uses one of the values of unit_id listed in class Units_of_Optical_Path_Length |
| | Units_of_Pixel_Resolution_Angular | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Resolution_Angular |
| | Units_of_Pixel_Resolution_Linear | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Resolution_Linear |
| | Units_of_Pixel_Resolution_Map | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Resolution_Map |
| | Units_of_Pixel_Scale_Angular | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Scale_Angular |
| | Units_of_Pixel_Scale_Linear | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Scale_Linear |
| | Units_of_Pixel_Scale_Map | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Scale_Map |
| | Units_of_Pressure | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pressure |
| | Units_of_Radiance | The attribute being defined uses one of the values of unit_id listed in class Units_of_Radiance |
| | Units_of_Rates | The attribute being defined uses one of the values of unit_id listed in class Units_of_Rates |
| | Units_of_Solid_Angle | The attribute being defined uses one of the values of unit_id listed in class Units_of_Solid_Angle |
| | Units_of_Spectral_Irradiance | The attribute being defined uses one of the values of unit_id listed in class Units_of_Spectral_Irradiance |
| | Units_of_Spectral_Radiance | The attribute being defined uses one of the values of unit_id listed in class Units_of_Spectral_Radiance |
| | Units_of_Storage | The attribute being defined uses one of the values of unit_id listed in class Units_of_Storage |

| Name: unit_of_measure_type | | Version Id: 1.0.0.0 |
|-----------------------------------|----------------------|----------------------------------------------------------------------------------------------------|
| | Units_of_Temperature | The attribute being defined uses one of the values of unit_id listed in class Units_of_Temperature |
| | Units_of_Time | The attribute being defined uses one of the values of unit_id listed in class Units_of_Time |
| | Units_of_Velocity | The attribute being defined uses one of the values of unit_id listed in class Units_of_Velocity |
| | Units_of_Voltage | The attribute being defined uses one of the values of unit_id listed in class Units_of_Voltage |
| | Units_of_Volume | The attribute being defined uses one of the values of unit_id listed in class Units_of_Volume |
| | Units_of_Wavenumber | The attribute being defined uses one of the values of unit_id listed in class Units_of_Wavenumber |

unit_of_measure_type in DD_Value_Domain_Full

| Name: unit_of_measure_type | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The unit_of_measure_type attribute identifies the class from which the attribute being defined in this data dictionary draws its possible expressions for units. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Units_of_Acceleration | The attribute being defined uses one of the values of unit_id listed in class Units_of_Acceleration |
| | Units_of_Amount_Of_Substance | The attribute being defined uses one of the values of unit_id listed in class Units_of_Amount_of_Substance |
| | Units_of_Angle | The value is given in a unit which conveys angle |
| | Units_of_Angular_Velocity | The value is given in a unit which conveys angular velocity |
| | Units_of_Area | The value is given in a unit which conveys area |
| | Units_of_Current | The value is given in a unit which conveys current |
| | Units_of_Energy | The attribute being defined uses one of the values of unit_id listed in class Units_of_Energy |
| | Units_of_Frame_Rate | The value is given in a unit which conveys frame rate |
| | Units_of_Frequency | The value is given in a unit which conveys frequency |

| Name: unit_of_measure_type | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| | Units_of_Length | The value is given in a unit which conveys length |
| | Units_of_Map_Scale | The value is given in a unit which conveys map scale |
| | Units_of_Mass | The value is given in a unit which conveys mass |
| | Units_of_Misc | The value is given in a unit which is in a miscellaneous category |
| | Units_of_None | The value is given without regard to a unit of measure |
| | Units_of_Optical_Path_Length | The value is given in a unit which conveys optical path length |
| | Units_of_Pixel_Resolution_Angular | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Resolution_Angular |
| | Units_of_Pixel_Resolution_Linear | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Resolution_Linear |
| | Units_of_Pixel_Resolution_Map | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Resolution_Map |
| | Units_of_Pixel_Scale_Angular | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Scale_Angular |
| | Units_of_Pixel_Scale_Linear | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Scale_Linear |
| | Units_of_Pixel_Scale_Map | The attribute being defined uses one of the values of unit_id listed in class Units_of_Pixel_Scale_Map |
| | Units_of_Pressure | The value is given in a unit which conveys pressure |
| | Units_of_Radiance | The value is given in a unit which conveys radiance |
| | Units_of_Rates | The value is given in a unit which conveys rates or counts per unit time |
| | Units_of_Solid_Angle | The value is given in a unit which conveys solid angle |
| | Units_of_Spectral_Irradiance | The value is given in a unit which conveys spectral irradiance |
| | Units_of_Spectral_Radiance | The value is given in a unit which conveys spectral radiance |
| | Units_of_Storage | The value is given in a unit which conveys computer storage |
| | Units_of_Temperature | The value is given in a unit which conveys temperature |
| | Units_of_Time | The value is given in a unit which conveys time |
| | Units_of_Velocity | The value is given in a unit which conveys velocity |

| Name: unit_of_measure_type | | Version Id: 1.0.0.0 |
|-----------------------------------|---------------------|-------------------------------------------------------|
| | Units_of_Voltage | The value is given in a unit which conveys voltage |
| | Units_of_Volume | The value is given in a unit which conveys volume |
| | Units_of_Wavenumber | The value is given in a unit which conveys wavenumber |

unknown_constant in Special_Constants

| Name: unknown_constant | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------|
| <i>Description:</i> The unknown_constant attribute provides a value that indicates the original value was unknown. | | |
| Namespace Id: pds | Steward: pds | Class Name: Special_Constants Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Constant Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

update_purpose in Update *Deprecated*

Deprecated

| Name: update_purpose *Deprecated* | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------|
| <i>Description:</i> The update purpose attribute indicates the intended objective of this update. | | |
| Namespace Id: pds | Steward: pds | Class Name: Update *Deprecated* Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None Conceptual Domain: None |
| Status: Deprecated | Nillable: false | Pattern: None |
| Permissible Value(s) | Value | Value Meaning |
| | Update Label Metadata | The purpose of the update is to revise metadata in a product label. |
| | Update Supplemental Metadata | The purpose of the update is to revise metadata not in a product label. |

url in External_Reference_Extended

| Name: url | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------|
| <i>Description:</i> The url attribute provides a Uniform Resource Identifier (URI) that specifies where a resource is available and the mechanism for retrieving it. | | |
| Namespace Id: pds | Steward: ops | Class Name: External_Reference_Extended Type: ASCII_AnyURI |

| Name: url | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------|---------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

url in Resource

| Name: url | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|---------------------------------|
| <i>Description:</i> The url attribute provides a Uniform Resource Identifier (URI) that specifies where a resource is available and the mechanism for retrieving it. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Resource | <i>Type:</i> ASCII_AnyURI |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

url in Service

| Name: url | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The url attribute provides a Uniform Resource Identifier (URI) that specifies where a resource is available and the mechanism for retrieving it. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

users_manual_id in Software

| Name: users_manual_id | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The users manual id attribute provides a formal name used to refer to a manual that describes how to use the software. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| | |
|------------------------------|----------------------------|
| Name: users_manual_id | Version Id: 1.0.0.0 |
| Permissible Value(s) | No Values |

valid_maximum in Special_Constants

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|------------------------------------|
| Name: valid_maximum | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The valid_maximum attribute specifies the maximum valid value in the field or digital object with which the Special_Constants class is associated. Values above the valid_maximum have a special meaning. Values of this attribute should be represented in the same data_type as the elements in the object or field described. (Note that PDS3 had no qube-related valid_maximum values because all special constants were set below the valid_minimum.) | | | |
| Namespace Id: pds | Steward: pds | Class Name: Special_Constants | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Maximum | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

valid_minimum in Special_Constants

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|------------------------------------|
| Name: valid_minimum | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The valid_minimum attribute specifies the minimum valid value in the field or digital object with which the Special_Constants class is associated. Values below the valid_minimum have a special meaning. Values of this attribute should be represented in the same data_type as the elements in the object or field described. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Special_Constants | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Minimum | Conceptual Domain: None |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

validation_format in Field_Character

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|------------------------------------|
| Name: validation_format | Version Id: 1.0.0.0 | | |
| <i>Description:</i> The validation_format attribute gives the magnitude and precision of the data value with the expectation that both will be validated exactly. A subset of the standard POSIX string formats is allowed. See the PDS Standards Reference section "Field Formats" for details. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Field_Character | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: None | Conceptual Domain: None |

| Name: validation_format | | | Version Id: 1.0.0.0 |
|--------------------------------|-----------------|---------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: %[+, -]?[0-9]+(\.[0-9]+)?[doxfeEs] | |
| Permissible Value(s) | No Values | | |

value in DD_Permissible_Value

| Name: value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|------------------------------------|
| <i>Description:</i> The value attribute provides a single, allowed numerical or character string value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Permissible_Value | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

value in DD_Permissible_Value_Full

| Name: value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|------------------------------------|
| <i>Description:</i> The value attribute provides a single, allowed numerical or character string value. | | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Permissible_Value_Full | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

value in Quaternion_Component

| Name: value | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|------------------------------------|
| <i>Description:</i> The value attribute provides a single, allowed numerical or character string value. | | | |
| Namespace Id: pds | Steward: pds | Class Name: Quaternion_Component | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Value | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | No Values | | |

value in Vector_Component

| <i>Name:</i> value | | | <i>Version Id:</i> 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-------------------------------------------|
| <i>Description:</i> The value attribute provides a single, allowed numerical or character string value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Component | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Value | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_begin_date in DD_Permissible_Value_Full

| <i>Name:</i> value_begin_date | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|----------------------------------|
| <i>Description:</i> The value_begin_date attribute provides the first date on which the permissible value is in effect. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Permissible_Value_Full | <i>Type:</i> ASCII_Date_Time_YMD |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Time | <i>Conceptual Domain:</i> Time |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_data_type in DD_Value_Domain

| <i>Name:</i> value_data_type | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The value_data_type attribute is used in a data dictionary to specify the data type of an attribute's value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | ASCII_AnyURI | The value is expressed using the data type ASCII_AnyURI | |
| | ASCII_BibCode | The value is expressed using the data type ASCII_BibCode | |

| Name: value_data_type | | Version Id: 1.0.0.0 |
|------------------------------|-------------------------------|--------------------------------------------------------------------------|
| | ASCII_Boolean | The value is expressed using the data type ASCII_Boolean |
| | ASCII_DOI | The value is expressed using the data type ASCII_DOI |
| | ASCII_Date_DOY | The value is expressed using the data type ASCII_Date_DOY |
| | ASCII_Date_Time_DOY | The value is expressed using the data type ASCII_Date_Time_DOY |
| | ASCII_Date_Time_DOY_UTC | The value is expressed using the data type ASCII_Date_Time_DOY_UTC |
| | ASCII_Date_Time_YMD | The value is expressed using the data type ASCII_Date_Time_YMD |
| | ASCII_Date_Time_YMD_UTC | The value is expressed using the data type ASCII_Date_Time_YMD_UTC |
| | ASCII_Date_YMD | The value is expressed using the data type ASCII_Date_YMD |
| | ASCII_Directory_Path_Name | The value is expressed using the data type ASCII_Directory_Path_Name |
| | ASCII_File_Name | The value is expressed using the data type ASCII_File_Name |
| | ASCII_File_Specification_Name | The value is expressed using the data type ASCII_File_Specification_Name |
| | ASCII_Integer | The value is expressed using the data type ASCII_Integer |
| | ASCII_LID | The value is expressed using the data type ASCII_LID |
| | ASCII_LIDVID | The value is expressed using the data type ASCII_LIDVID |
| | ASCII_LIDVID_LID | The value is expressed using the data type ASCII_LIDVID_LID |
| | ASCII_MD5_Checksum | The value is expressed using the data type ASCII_MD5_Checksum |
| | ASCII_NonNegative_Integer | The value is expressed using the data type ASCII_NonNegative_Integer |
| | ASCII_Numeric_Base16 | The value is expressed using the data type ASCII_Numeric_Base16 |
| | ASCII_Numeric_Base2 | The value is expressed using the data type ASCII_Numeric_Base2 |
| | ASCII_Numeric_Base8 | The value is expressed using the data type ASCII_Numeric_Base8 |
| | ASCII_Real | The value is expressed using the data type ASCII_Real |
| | ASCII_Short_String_Collapsed | The value is expressed using the data type ASCII_Short_String_Collapsed |
| | ASCII_Short_String_Preserved | The value is expressed using the data type ASCII_Short_String_Preserved |

| Name: value_data_type | | Version Id: 1.0.0.0 |
|------------------------------|---------------------------------|----------------------------------------------------------------------------|
| | ASCII_Text_Collapsed | The value is expressed using the data type ASCII_Text_Collapsed |
| | ASCII_Text_Preserved | The value is expressed using the data type ASCII_Text_Preserved |
| | ASCII_Time | The value is expressed using the data type ASCII_Time |
| | ASCII_VID | The value is expressed using the data type ASCII_VID |
| | UTF8_Short_String_Collapsed | The value is expressed using the data type UTF8_Short_String_Collapsed |
| | UTF8_Short_String_Preserved | The value is expressed using the data type UTF8_Short_String_Preserved |
| | UTF8_Text_Preserved | The value is expressed using the data type UTF8_Text_Preserved |
| | Vector_Cartesian_3 | The value is expressed using the data type Vector_Cartesian_3 |
| | Vector_Cartesian_3_Acceleration | The value is expressed using the data type Vector_Cartesian_3_Acceleration |
| | Vector_Cartesian_3_Pointing | The value is expressed using the data type Vector_Cartesian_3_Pointing |
| | Vector_Cartesian_3_Position | The value is expressed using the data type Vector_Cartesian_3_Position |
| | Vector_Cartesian_3_Velocity | The value is expressed using the data type Vector_Cartesian_3_Velocity |

value_data_type in DD_Value_Domain_Full

| Name: value_data_type | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|
| <i>Description:</i> The value_data_type attribute is used in a data dictionary to specify the data type of an attribute's value. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Value_Domain_Full |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | ASCII_AnyURI | The value is expressed using the data type ASCII_AnyURI |
| | ASCII_BibCode | The value is expressed using the data type ASCII_BibCode |
| | ASCII_Boolean | The value is expressed using the data type ASCII_Boolean |
| | ASCII DOI | The value is expressed using the data type ASCII DOI |

| Name: value_data_type | | Version Id: 1.0.0.0 |
|------------------------------|-------------------------------|--------------------------------------------------------------------------|
| | ASCII_Date_DOF | The value is expressed using the data type ASCII_Date_DOF |
| | ASCII_Date_Time_DOF | The value is expressed using the data type ASCII_Date_Time_DOF |
| | ASCII_Date_Time_DOF_UTC | The value is expressed using the data type ASCII_Date_Time_DOF_UTC |
| | ASCII_Date_Time_YMD | The value is expressed using the data type ASCII_Date_Time_YMD |
| | ASCII_Date_Time_YMD_UTC | The value is expressed using the data type ASCII_Date_Time_YMD_UTC |
| | ASCII_Date_YMD | The value is expressed using the data type ASCII_Date_YMD |
| | ASCII_Directory_Path_Name | The value is expressed using the data type ASCII_Directory_Path_Name |
| | ASCII_File_Name | The value is expressed using the data type ASCII_File_Name |
| | ASCII_File_Specification_Name | The value is expressed using the data type ASCII_File_Specification_Name |
| | ASCII_Integer | The value is expressed using the data type ASCII_Integer |
| | ASCII_LID | The value is expressed using the data type ASCII_LID |
| | ASCII_LIDVID | The value is expressed using the data type ASCII_LIDVID |
| | ASCII_LIDVID_LID | The value is expressed using the data type ASCII_LIDVID_LID |
| | ASCII_MD5_Checksum | The value is expressed using the data type ASCII_MD5_Checksum |
| | ASCII_NonNegative_Integer | The value is expressed using the data type ASCII_NonNegative_Integer |
| | ASCII_Numeric_Base16 | The value is expressed using the data type ASCII_Numeric_Base16 |
| | ASCII_Numeric_Base2 | The value is expressed using the data type ASCII_Numeric_Base2 |
| | ASCII_Numeric_Base8 | The value is expressed using the data type ASCII_Numeric_Base8 |
| | ASCII_Real | The value is expressed using the data type ASCII_Real |
| | ASCII_Short_String_Collapsed | The value is expressed using the data type ASCII_Short_String_Collapsed |
| | ASCII_Short_String_Preserved | The value is expressed using the data type ASCII_Short_String_Preserved |
| | ASCII_Text_Collapsed | The value is expressed using the data type ASCII_Text_Collapsed |
| | ASCII_Text_Preserved | The value is expressed using the data type ASCII_Text_Preserved |

| Name: value_data_type | | Version Id: 1.0.0.0 |
|------------------------------|-----------------------------|------------------------------------------------------------------------|
| | ASCII_Time | The value is expressed using the data type ASCII_Time |
| | ASCII_VID | The value is expressed using the data type ASCII_VID |
| | UTF8_Short_String_Collapsed | The value is expressed using the data type UTF8_Short_String_Collapsed |
| | UTF8_Short_String_Preserved | The value is expressed using the data type UTF8_Short_String_Preserved |
| | UTF8_Text_Preserved | The value is expressed using the data type UTF8_Text_Preserved |

value_end_date in DD_Permissible_Value_Full

| Name: value_end_date | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|
| <i>Description:</i> The value_end_date attribute provides the last date on which the permissible value is in effect. | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Permissible_Value_Full |
| Minimum Value: None | Maximum Value: None | Minimum Characters: None |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Time |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

value_meaning in DD_Permissible_Value

| Name: value_meaning | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|
| <i>Description:</i> The value_meaning attribute provides the meaning, or semantic content, of the associated permissible value. | | |
| Namespace Id: pds | Steward: ops | Class Name: DD_Permissible_Value |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Text |
| Status: Active | Nillable: false | Pattern: None |
| Permissible Value(s) | No Values | |

value_meaning in DD_Permissible_Value_Full

| Name: value_meaning | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-----------------------------------|
| <i>Description:</i> The value_meaning attribute provides the meaning, or semantic content, of the associated permissible value. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Permissible_Value_Full | <i>Type:</i> ASCII_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Text | <i>Conceptual Domain:</i> Text |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_offset in Band_Bin *Deprecated*

| Name: value_offset | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|---------------------------------|
| <i>Description:</i> The value_offset attribute is the offset to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> img | <i>Class Name:</i> Band_Bin *Deprecated* | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e3087976931348623157e30 | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_offset in Element_Array

| Name: value_offset | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|---------------------------------|
| <i>Description:</i> The value_offset attribute is the offset to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Element_Array | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e3087976931348623157e30 | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_offset in Field_Binary

| <i>Name:</i> value_offset | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The value_offset attribute is the offset to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Binary | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_offset in Field_Bit

| <i>Name:</i> value_offset | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The value_offset attribute is the offset to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Bit | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_offset in Field_Character

| <i>Name:</i> value_offset | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The value_offset attribute is the offset to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Character | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

value_offset in Field_Delimited

| <i>Name:</i> value_offset | | | <i>Version Id:</i> 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The value_offset attribute is the offset to be applied to each stored value in order to recover an original value. The observed value (Ov) is calculated from the stored value (Sv) thus: Ov = (Sv * scaling_factor) + value_offset. The default value is 0. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Field_Delimited | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e308 | <i>Maximum Value:</i> 931348623157e308 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Offset | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

vector_components in Vector

| <i>Name:</i> vector_components | | | <i>Version Id:</i> 1.0.0.0 |
|--------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------|------------------------------------|
| <i>Description:</i> The vector_components attribute provides a count of vector components. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector | <i>Type:</i> ASCII_Integer |
| <i>Minimum Value:</i> -9223372036854775808 | <i>Maximum Value:</i> 9223372036854775807 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

version_id in DD_Attribute

| <i>Name:</i> version_id | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

version_id in DD_Attribute_Full

| <i>Name:</i> version_id | | | <i>Version Id:</i> 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |

| Name: version_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Attribute_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

version_id in DD_Class

| Name: version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

version_id in DD_Class_Full

| Name: version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> DD_Class_Full | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

version_id in Identification_Area

| Name: version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Identification_Area | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: version_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

version_id in Instrument_Host *Deprecated*

| Name: version_id *Deprecated* | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Instrument_Host | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

version_id in Modification_Detail

| Name: version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Modification_Detail | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

version_id in Service

| Name: version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Service | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

version_id in Software *Deprecated*

| Name: version_id *Deprecated* | | Version Id: 1.0.0.0 | |
|------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The version_id attribute provides the version of the product, expressed in the PDS [m.n] notation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Software | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Deprecated | <i>Nillable:</i> false | <i>Pattern:</i> ([0-9]+)(\.){1}([0-9]+) | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_de_fullname in Volume_PDS3

| Name: volume_de_fullname | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_de_fullname attribute provide the full name of the data engineer. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_format in Volume_PDS3

| Name: volume_format | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_format attribute identifies the logical format used in writing a data volume. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Format | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_id in Volume_PDS3

| Name: volume_id | | Version Id: 1.0.0.0 | |
|---------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| <i>Description:</i> The volume_id attribute provides a unique identifier for a data volume. Example: MG_1001. | | | |

| Name: volume_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_name in Volume_PDS3

| Name: volume_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_name attribute contains the name of a data volume. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_series_name in Volume_Set_PDS3

| Name: volume_series_name | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_series_name element provides a full, formal name that describes a broad categorization of data products or data sets related to a planetary body or a research campaign (e.g. International Halley Watch). A volume series consists of one or more volume sets that represent data from one or more missions or campaigns. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_set_id in Volume_PDS3

| Name: volume_set_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_set_id attribute identifies a data volume or a set of volumes. Volume sets are normally considered as a single orderable entity. Examples: USA_NASA_PDS_MG_1001, USA_NASA_PDS_GR_0001_TO_GR_0009 | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: volume_set_id | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_set_id in Volume_Set_PDS3

| Name: volume_set_id | | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_set_id attribute identifies a data volume or a set of volumes. Volume sets are normally considered as a single orderable entity. Examples: USA_NASA_PDS_MG_1001, USA_NASA_PDS_GR_0001_TO_GR_0009 | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_set_name in Volume_Set_PDS3

| Name: volume_set_name | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_set_name element provides the full, formal name of one or more data volumes containing a single data set or a collection of related data sets. Volume sets are normally considered as a single orderable entity. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_Set_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Name | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

volume_size in Volume_PDS3

| Name: volume_size | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------|
| <i>Description:</i> The volume size attribute provide the number of bytes in the volume. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |

| Name: volume_size | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------|-----------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Size | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

volume_version_id in Volume_PDS3

| Name: volume_version_id | | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------------------|
| <i>Description:</i> The volume_version_id attribute identifies the version of a data volume. All original volumes should use a volume_version_id of 'Version 1'. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_PDS3 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> ID | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

volumes in Volume_Set_PDS3

| Name: volumes | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------|----------------------------------------|
| <i>Description:</i> The volumes element provides the number of physical data volumes contained in a volume set. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> Volume_Set_PDS3 | <i>Type:</i> ASCII_NonNegative_Integer |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Count | <i>Conceptual Domain:</i> Integer |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> [0-9]+ | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

wavelength_range in Science_Facets

| Name: wavelength_range | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------|
| <i>Description:</i> The wavelength range attribute specifies the wavelength range over which the data were collected or which otherwise characterizes the observation(s). Boundaries are vague, and there is overlap. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Science_Facets | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: wavelength_range | | Version Id: 1.0.0.0 |
|-------------------------------|---------------|---------------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | Far Infrared | The wavelength is between approximately 30 and 300 micrometers |
| | Gamma Ray | The wavelength is less than approximately 0.01 nm |
| | Infrared | The wavelength is between approximately 0.75 and 300 micrometers |
| | Microwave | The wavelength is between millimeters and approximately one meter |
| | Millimeter | The wavelength is between approximately one and a few millimeters |
| | Near Infrared | The wavelength is between approximately 0.65 and 5.0 micrometers |
| | Radio | The wavelength is between millimeters and hundreds of thousands of meters |
| | Submillimeter | The wavelength is between approximately 0.3 and 1.0 millimeters |
| | Ultraviolet | The wavelength is between approximately 10 and 400 nm |
| | Visible | The wavelength is between approximately 390 and 700 nm |
| | X-ray | The wavelength is between approximately 0.01 and 10 nm |

x in Vector_Cartesian_3

| Name: x | | Version Id: 1.0.0.0 | |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------------------------|
| <i>Description:</i> The x attribute provides the value of the x coordinate in a position vector. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Cartesian_3 | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e-308 | <i>Maximum Value:</i> 9.2233720368547758e+308 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

xml_schema_base_type in ASCII_AnyURI

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_AnyURI | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|--------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:anyURI | ASCII_AnyURI has an XML schema base type of xsd:anyURI | |

xml_schema_base_type in ASCII_BibCode

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_BibCode | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_BibCode has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Boolean

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Boolean | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:boolean | ASCII_Boolean has an XML schema base type of xsd:boolean | |

xml_schema_base_type in ASCII_DOI

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_DOI | <i>Type:</i> ASCII_Short_String_Collapsed |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-----------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_DOI has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date *Deprecated*

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_DOY

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Date_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_DOY has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_Time

Deprecated

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Date_Time *Deprecat-ed* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_Time has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_Time_DOY

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Date_Time_DOY | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_Time_DOY has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_Time_DOY_UTC

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_DOY_UTC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_Time_DOF_UTC has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_Time_UTC *Deprecated*

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Date_Time_UTC *Deprecated* | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_Time_UTC has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_Time_YMD

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Date_Time_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_Time_YMD has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_Time_YMD_UTC

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Date_Time_YMD_UTC | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_Time_YMD_UTC has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Date_YMD

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Date_YMD | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Date_YMD has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Directory_Path_Name

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Directory_Path_Name | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------|--------------------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | xsd:token | ASCII_Directory_Path_Name has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_File_Name

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------|------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| Namespace Id: pds | Steward: ops | Class Name: ASCII_File_Name | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | xsd:token | ASCII_File_Name has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_File_Specification_Name

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------|------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| Namespace Id: pds | Steward: ops | Class Name: ASCII_File_Specification_Name | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | xsd:token | ASCII_File_Specification_Name has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_Integer

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| Namespace Id: pds | Steward: ops | Class Name: ASCII_Integer | Type: ASCII_Short_String_Collapsed |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------|----------------------------------------|
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:long | ASCII_Integer has an XML schema base type of xsd:long | |

xml_schema_base_type in ASCII_LID

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_LID has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_LIDVID

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_LIDVID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_LIDVID has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_LIDVID_LID

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_LIDVID_LID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_LIDVID_LID has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Local_Identifier

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Local_Identifier | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:ID | ASCII_Local_Identifier has an XML schema base type of xsd:ID | |

xml_schema_base_type in ASCII_Local_Identifier_Reference

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Local_Identifier_Reference | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> None | <i>Conceptual Domain:</i> None |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:IDREF | ASCII_Local_Identifier_Reference has an XML schema base type of xsd:IDREF | |

xml_schema_base_type in ASCII_MD5_Checksum

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_MD5_Checksum | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_MD5_Checksum has an XML schema base type xsd:string | |

xml_schema_base_type in ASCII_NonNegative_Integer

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_NonNegative_Integer | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:unsignedLong | ASCII_NonNegative_Integer has an XML schema base type of xsd:unsignedLong | |

xml_schema_base_type in ASCII_Numeric_Base16

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base16 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|-------------------------------------------------------------------|----------------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:hexBinary | ASCII_Numeric_Base16 has an XML schema base type of xsd:hexBinary | |

xml_schema_base_type in ASCII_Numeric_Base2

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base2 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Numeric_Base2 has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Numeric_Base8

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> ASCII_Numeric_Base8 | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Numeric_Base8 has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_Real

| <i>Name:</i> xml_schema_base_type | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Real | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:double | ASCII_Real has an XML schema base type of xsd:double | |

xml_schema_base_type in ASCII_Short_String_Collapsed

| <i>Name:</i> xml_schema_base_type | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Short_String_Collapsed | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:token | ASCII_Short_String_Collapsed has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_Short_String_Preserved

| <i>Name:</i> xml_schema_base_type | | | <i>Version Id:</i> 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Short_String_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|-----------------|------------------------------------------------------------------------|----------------------------|
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | xsd:string | ASCII_Short_String_Preserved has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_String

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_String | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | xsd:token | ASCII_String has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_Text_Collapsed

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------|------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| Namespace Id: pds | Steward: pds | Class Name: ASCII_Text_Collapsed | Type: ASCII_Short_String_Collapsed |
| Minimum Value: None | Maximum Value: None | Minimum Characters: 1 | Maximum Characters: 255 |
| Unit of Measure Type: None | Default Unit Id: None | Attribute Concept: Type | Conceptual Domain: Short_String |
| Status: Active | Nillable: false | Pattern: None | |
| Permissible Value(s) | Value | Value Meaning | |
| | xsd:token | ASCII_Text_Collapsed has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_Text_Preserved

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|---------------------------------------------------------------|-------------------------------------------|
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Text_Preserved | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Text_Preserved has an XML schema base type of xsd:token | |

xml_schema_base_type in ASCII_Time

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_Time | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_Time has an XML schema base type of xsd:string | |

xml_schema_base_type in ASCII_VID

| Name: xml_schema_base_type | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> ASCII_VID | <i>Type:</i> ASCII_Short_String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> | |
| | xsd:string | ASCII_VID has an XML schema base type of xsd:string | |

xml_schema_base_type in Character_Data_Type

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|-----------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Charac- ter_Data_Type | <i>Type:</i> ASCII_Short_ String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>No Values</i> | |

xml_schema_base_type in UTF8_Short_String_Collapsed

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------|-----------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> UTF8_ Short_String_Collapsed | <i>Type:</i> ASCII_Short_ String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | | <i>Value Meaning</i> | |
| | xsd:token | UTF8_Short_String_Collapsed has an XML schema base type of xsd:token | |

xml_schema_base_type in UTF8_Short_String_Preserved

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 | |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------|-----------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> UTF8_ Short_String_Preserved | <i>Type:</i> ASCII_Short_ String_Collapsed |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type | <i>Conceptual Domain:</i> Short_String |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 |
|-----------------------------------|--------------|-----------------------------------------------------------------------|
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | xsd:string | UTF8_Short_String_Preserved has an XML schema base type of xsd:string |

xml_schema_base_type in UTF8_String

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> UTF8_String |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | xsd:token | UTF8_String must be normalized. |

xml_schema_base_type in UTF8_Text_Preserved

| Name: xml_schema_base_type | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------|
| <i>Description:</i> The xml schema base type attribute provides the data type needed for the XML schema implementation. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> ops | <i>Class Name:</i> UTF8_Text_Preserved |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Type |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None |
| <i>Permissible Value(s)</i> | <i>Value</i> | <i>Value Meaning</i> |
| | xsd:string | UTF8_Text_Preserved has an XML schema base type of xsd:string |

y in Vector_Cartesian_3

| Name: y | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------|
| <i>Description:</i> The y attribute provides the value of the y coordinate in a position vector. | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Cartesian_3 |
| <i>Minimum Value:</i> -1.7976931348623157e308 | <i>Maximum Value:</i> 1.7976931348623157e308 | <i>Minimum Characters:</i> None |

| Name: y | | | Version Id: 1.0.0.0 |
|-----------------------------------|------------------------------|----------------------------------|--------------------------------|
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

z in Vector_Cartesian_3

| Name: z | | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------|------------------------------------|
| <i>Description:</i> The z attribute provides the value of the z coordinate in a position vector. | | | |
| <i>Namespace Id:</i> pds | <i>Steward:</i> pds | <i>Class Name:</i> Vector_Cartesian_3 | <i>Type:</i> ASCII_Real |
| <i>Minimum Value:</i> -1.7976931348623157e30 | <i>Maximum Value:</i> 8.7976931348623157e30 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Unit of Measure Type:</i> None | <i>Default Unit Id:</i> None | <i>Attribute Concept:</i> Number | <i>Conceptual Domain:</i> Real |
| <i>Status:</i> Active | <i>Nillable:</i> false | <i>Pattern:</i> None | |
| <i>Permissible Value(s)</i> | <i>No Values</i> | | |

Chapter 10. Attributes in the Rings discipline namespace.

These attributes are used by the classes defined for the Rings namespace.

Chapter 11. Attributes in the Imaging discipline namespace.

These attributes are used by the classes defined for the Imaging namespace.

Chapter 12. Attributes in the Cartographic namespace.

These attributes are used by the classes defined for the Cartographic namespace.

Chapter 13. Attributes in the Display namespace.

These attributes are used by the classes defined for the Display namespace.

Chapter 14. Data Types in the pds namespace.

These classes define the data types.

ASCII_AnyURI

| | | | |
|------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ASCII_AnyURI | | Version Id: 1.0.0.0 | |
| <i>Description</i> The ASCII AnyURI class indicates a URI or its subclasses URN and URL. | | | |
| <i>Schema Base Type:</i> anyURI | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ASCII_BibCode

| | | | |
|--------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ASCII_BibCode | | Version Id: 1.0.0.0 | |
| <i>Description</i> The ASCII BibCode class indicates a bibliographic code from the Astrophysics Data System. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| [0-9]{4}[A-Za-z0-9&\.]{5}[A-Za-z0-9\.]{9}[A-Z\.] | | | |

ASCII_Boolean

| | | | |
|------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ASCII_Boolean | | Version Id: 1.0.0.0 | |
| <i>Description</i> The ASCII_Boolean class indicates a boolean. The allowed values are 'true' and 'false'. | | | |
| <i>Schema Base Type:</i> boolean | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ASCII_DOI

| | | | |
|-------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ASCII_DOI | | Version Id: 1.1.0.0 | |
| <i>Description</i> The ASCII DOI class indicates a digital object identifier (DOI). | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |

| | |
|------------------------|----------------------------|
| Name: ASCII_DOI | Version Id: 1.1.0.0 |
| | <i>Pattern</i> |
| | 10\.\S+\\$+ |

ASCII_Date

| | |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Name: ASCII_Date | Version Id: 1.1.0.0 |
| <i>Description</i> The ASCII_Date class indicates a date in either YMD or DOY format. | |
| <i>Schema Base Type:</i> string | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None |
| | <i>Minimum Characters:</i> None |
| | <i>Maximum Characters:</i> None |
| | <i>Pattern</i> |
| | (-)?[0-9]{4} |
| | (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6])))) |
| | (-)?[0-9]{4}-((0[1-9])(1[0-2])) |
| | (-)?[0-9]{4}-((0[1-9])(1[0-2]))-((0[1-9]) ([1-2][0-9]) (3[0-1])) |

ASCII_Date_DOY

| | |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Name: ASCII_Date_DOY | Version Id: 1.0.0.0 |
| <i>Description</i> The ASCII_Date_DOY class indicates a date in DOY format. | |
| <i>Schema Base Type:</i> string | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None |
| | <i>Minimum Characters:</i> None |
| | <i>Maximum Characters:</i> None |
| | <i>Pattern</i> |
| | (-)?[0-9]{4}(Z?) |
| | (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6])))(Z?) |

ASCII_Date_Time

| | |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Name: ASCII_Date_Time | Version Id: 1.1.0.0 |
| <i>Description</i> The ASCII_Date_Time class indicates a date in either YMD or DOY format and time. | |
| <i>Schema Base Type:</i> string | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None |
| | <i>Minimum Characters:</i> None |
| | <i>Maximum Characters:</i> None |
| | <i>Pattern</i> |
| | (-)?[0-9]{4} |
| | (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6])))) |
| | (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3(([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9](Z)? |

| Name: ASCII_Date_Time | Version Id: 1.1.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9]:(([0-5][0-9]) 60)(\.(0-9){1,4}))?(Z)? | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-4]))(Z)? | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)24:00(:00((.0+)?))?(Z)? | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9])([1-2][0-9])(3[0-1])) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9])([1-2][0-9])(3[0-1]))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9](Z)? | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9])([1-2][0-9])(3[0-1]))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9]:(([0-5][0-9]) 60)(\.(0-9){1,4}))?(Z)? | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9])([1-2][0-9])(3[0-1]))(T)(([0-1][0-9])(2[0-4]))(Z)? | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9])([1-2][0-9])(3[0-1]))(T)24:00(:00((.0+)?))?(Z)? | |

ASCII_Date_Time_DOY

| Name: ASCII_Date_Time_DOY | Version Id: 1.2.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <i>Description</i> The ASCII_Date_Time_DOY class indicates a date in DOY format and time. | |
| Schema Base Type: string | |
| Minimum Value: None | Maximum Value: None Minimum Characters: None Maximum Characters: None |
| <i>Pattern</i> | |
| (-)?[0-9]{4}(Z?) | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9](Z?) | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-3])):[0-5][0-9]:(([0-5][0-9]) 60)(\.(0-9){1,6}))?(Z?) | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)(([0-1][0-9])(2[0-4]))(Z?) | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)24(:00)(:00:00))(Z?) | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(T)24:00:00(\.(0){1,6})(Z?) | |
| (-)?[0-9]{4}-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3([0-5][0-9])(6[0-6])))(Z?) | |

ASCII_Date_Time_DOY_UTC

| Name: ASCII_Date_Time_DOY_UTC | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------|---------------------|
| <i>Description</i> The ASCII_Date_Time_DOY_UTC class indicates a date (in DOY format) and time in UTC. | |

| Name: ASCII_Date_Time_DOF_UTC | | Version Id: 1.0.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| (-)?[0-9]{4}(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]:((0-5][0-9]) 60)(\.(0-9){1,6}))?(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9]) (2[0-4]))(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)24(:00)(:00:00))?(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)24:00:00(\.(0){1,6}))(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(Z) | | | |

ASCII_Date_Time_UTC

| Name: ASCII_Date_Time_UTC | | Version Id: 1.3.0.0 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> The ASCII_Date_Time_UTC class indicates a date and time in UTC format. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| (-)?[0-9]{4}(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]:((0-5][0-9]) 60)(\.(0-9){1,4}))?(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)(([0-1][0-9]) (2[0-4]))(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(T)24:00(:00(\.(0+)?))?(Z) | | | |
| (-)?[0-9]{4}-((00[1-9])(0[1-9][0-9]) ([1-2][0-9][0-9]) (3([0-5][0-9]) (6[0-6])))(Z) | | | |
| (-)?[0-9]{4}-((0[1-9])(1[0-2]))(Z) | | | |
| (-)?[0-9]{4}-((0[1-9])(1[0-2]))-((0[1-9])([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z) | | | |
| (-)?[0-9]{4}-((0[1-9])(1[0-2]))-((0[1-9])([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]:((0-5][0-9]) 60)(\.(0-9){1,4}))?(Z) | | | |

| Name: ASCII_Date_Time_UTC | Version Id: 1.3.0.0 |
|---------------------------------------------------------------------------------------------|----------------------------|
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-4]))(Z) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)24:00(:00((.0+)?))?(Z) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(Z) | |

ASCII_Date_Time_YMD

| Name: ASCII_Date_Time_YMD | Version Id: 1.1.0.0 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|
| <i>Description</i> The ASCII_Date_Time_YMD class indicates a date in YMD format and time. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| (-)?[0-9]{4}(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3]))(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]:((0[0-5][0-9]):60)(\.(0[0-9]{1,6}))?(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)24(:00)(:00:00)?(Z?) | | | |
| (T)24:00:00(\.(0[0-5][0-9]))(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(Z?) | | | |

ASCII_Date_Time_YMD_UTC

| Name: ASCII_Date_Time_YMD_UTC | Version Id: 1.0.0.0 | | |
|--------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|
| <i>Description</i> The ASCII_Date_Time_YMD_UTC class indicates a date (in YMD format) and time in UTC. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| (-)?[0-9]{4}(Z) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])(Z) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3]))(Z) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9]) (3[0-1]))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9](Z) | | | |

| Name: ASCII_Date_Time_YMD_UTC | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9])(3[0-1]))(T)(([0-1][0-9]) (2[0-3])):[0-5][0-9]:((0-5][0-9]) 60)(\.(0-9){1,6}))?(Z) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9])(3[0-1]))(T)24(:00):00:00)?(Z) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9])(3[0-1]))(T)24:00:00(\.(0){1,6}))?(Z) | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9])(3[0-1]))(Z) | |

ASCII_Date_YMD

| Name: ASCII_Date_YMD | Version Id: 1.1.0.0 | | |
|-----------------------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|
| <i>Description</i> The ASCII Date YMD class indicates a date in YMD format. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| (-)?[0-9]{4}(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])(Z?) | | | |
| (-)?[0-9]{4}-(0[1-9])(1[0-2])-((0[1-9]) ([1-2][0-9])(3[0-1]))(Z?) | | | |

ASCII_Directory_Path_Name

| Name: ASCII_Directory_Path_Name | Version Id: 1.1.0.0 | | |
|-------------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------------------------|
| <i>Description</i> The ASCII Directory Path Name class indicates a system directory path. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_File_Name

| Name: ASCII_File_Name | Version Id: 1.1.0.0 | | |
|----------------------------------------------------------------------------|----------------------------|------------------------------|--------------------------------|
| <i>Description</i> The ASCII File Name class indicates a system file name. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_File_Specification_Name

| Name: ASCII_File_Specification_Name | Version Id: 1.1.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <i>Description</i> The ASCII File Specification Name class indicates a system file including directory path, file name, and file extension. | |

| Name: ASCII_File_Specification_Name | | | Version Id: 1.1.0.0 |
|--------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_Integer

| Name: ASCII_Integer | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------------|----------------------------------------------|------------------------------------|------------------------------------|
| <i>Description</i> The ASCII_Integer class indicates an integer. | | | |
| <i>Schema Base Type:</i> long | | | |
| <i>Minimum Value:</i> -9223372036854775808 | <i>Maximum Value:</i> 9223372036854775807 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ASCII_LID

| Name: ASCII_LID | | | Version Id: 1.1.0.0 |
|------------------------------------------------------------------------|----------------------------|----------------------------------|-----------------------------------|
| <i>Description</i> The ASCII_LID class indicates a logical identifier. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 13 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_LIDVID

| Name: ASCII_LIDVID | | | Version Id: 1.1.0.0 |
|--------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------------------------------|
| <i>Description</i> The ASCII_LIDVID class indicates a logical identifier and version identifier. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 18 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_LIDVID_LID

| Name: ASCII_LIDVID_LID | | | Version Id: 1.1.0.0 |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------------------------------|
| <i>Description</i> The ASCII_LIDVID_LID class indicates a logical identifier and version identifier or simply the logical identifier. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 13 | <i>Maximum Characters:</i> 255 |

| | |
|-------------------------------|----------------------------|
| Name: ASCII_LIDVID_LID | Version Id: 1.1.0.0 |
| No Pattern | |

ASCII_Local_Identifier

| | | | |
|-------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: ASCII_Local_Identifier | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII Local Identifier class indicates a unique identifier local to the label. | | | |
| <i>Schema Base Type:</i> ID | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| No Pattern | | | |

ASCII_Local_Identifier_Reference

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: ASCII_Local_Identifier_Reference | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_Local_Identifier_Reference class indicates a reference to a unique identifier local to the label. | | | |
| <i>Schema Base Type:</i> IDREF | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| No Pattern | | | |

ASCII_MD5_Checksum

| | | | |
|------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|----------------------------------|
| Name: ASCII_MD5_Checksum | Version Id: 1.1.0.0 | | |
| <i>Description</i> The ASCII MD5 Checksum class indicates a checksum computed by the Message-Digest algorithm 5 (MD5). | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 32 | <i>Maximum Characters:</i> 32 |
| Pattern | | | |
| [0-9a-fA-F]{32} | | | |

ASCII_NonNegative_Integer

| | | | |
|------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------|------------------------------------|
| Name: ASCII_NonNegative_Integer | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_NonNegative_Integer class indicates a non-negative integer. | | | |
| <i>Schema Base Type:</i> unsignedLong | | | |
| <i>Minimum Value:</i> 0 | <i>Maximum Value:</i> 18446744073709551615 | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| Pattern | | | |
| [0-9]+ | | | |

ASCII_Numeric_Base16

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: ASCII_Numeric_Base16 | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII Numeric Base16 class indicates an ASCII character representation of a non-negative unsigned integer in base 16. Must consist of the characters 0 through 9, and A through F or a through f. May not be preceded by any sign (+/-) notation. | | | |
| <i>Schema Base Type:</i> hexBinary | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Pattern</i> | | | |

ASCII_Numeric_Base2

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: ASCII_Numeric_Base2 | Version Id: 1.2.0.0 | | |
| <i>Description</i> The ASCII Numeric Base2 class indicates an ASCII character representation of a non-negative unsigned integer in base 2. Must consist of the characters 0 and 1. May not be preceded by any sign (+/-) notation. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Pattern</i> | | | |
| [0-1]{1,255} | | | |

ASCII_Numeric_Base8

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: ASCII_Numeric_Base8 | Version Id: 1.2.0.0 | | |
| <i>Description</i> The ASCII Numeric Base8 class indicates an ASCII character representation of a non-negative unsigned integer in base 8. Must consist of the characters 0 through 7. May not be preceded by any sign (+/-) notation. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>Pattern</i> | | | |
| [0-7]{1,255} | | | |

ASCII_Real

| | | | |
|---------------------------------------------------------------------|-------------------------------|----------------------------|------------------------------------|
| Name: ASCII_Real | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_Real class indicates a real. | | | |
| <i>Schema Base Type:</i> double | | | |
| <i>Minimum Value:</i> -1.7976931348623157e3087976931348623157e30 | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |

| | |
|---------------------------------------------------------|----------------------------|
| Name: ASCII_Real | Version Id: 1.0.0.0 |
| (\+ -)?([0-9]+(\.[0-9]*))?\.[0-9]+)([Ee](\+ -)?[0-9]+)? | |
| [^aFIN,]* | |

ASCII_Short_String_Collapsed

| | | | |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------------------------|
| Name: ASCII_Short_String_Collapsed | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_Short_String_Collapsed class indicates a limited length, whitespace-collapsed string. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_Short_String_Preserved

| | | | |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------------------------|
| Name: ASCII_Short_String_Preserved | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_Short_String_Preserved class indicates a limited length, whitespace-preserved string. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

ASCII_String

| | | | |
|------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|---------------------------------|
| Name: ASCII_String | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_String class indicates a limited length ASCII text string with whitespaces removed. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ASCII_Text_Collapsed

| | | | |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|---------------------------------|
| Name: ASCII_Text_Collapsed | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_Text_Collapsed class indicates an unlimited length, whitespace-collapsed text string. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |

| | |
|-----------------------------------|----------------------------|
| Name: ASCII_Text_Collapsed | Version Id: 1.0.0.0 |
| <i>No Pattern</i> | |

ASCII_Text_Preserved

| | | | |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Name: ASCII_Text_Preserved | Version Id: 1.0.0.0 | | |
| <i>Description</i> The ASCII_Text_Preserved class indicates an unlimited length, whitespace-preserved text string. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ASCII_Time

| | | | |
|----------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ASCII_Time | Version Id: 1.1.0.0 | | |
| <i>Description</i> The ASCII_Time class indicates a time value. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>Pattern</i> | | | |
| (([0-1][0-9])(2[0-3])):[0-5][0-9](Z?) | | | |
| (([0-1][0-9])(2[0-3])):[0-5][0-9]:(([0-5][0-9]) 60)((\.[0-9]+) (Z?)) | | | |
| (([0-1][0-9])(2[0-4]))(Z?) | | | |
| 24:00(:00((\.[0+])) (Z?)) | | | |

ASCII_VID

| | | | |
|------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: ASCII_VID | Version Id: 1.1.0.0 | | |
| <i>Description</i> The ASCII_VID class indicates a version identifier. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 3 | <i>Maximum Characters:</i> 100 |
| <i>Pattern</i> | | | |
| 0\.([1-9] ([0-9][0-9]+)) | | | |
| [1-9][0-9]* | | | |
| [1-9][0-9]*\.[0-9]+ | | | |

Binary_Data_Type

| | |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Name: Binary_Data_Type | Version Id: 1.0.0.0 |
| <i>Description</i> The Binary Data Type class is the abstract parent class for binary data types found in the digital objects. | |

| Name: Binary_Data_Type | | | Version Id: 1.0.0.0 |
|----------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

Character_Data_Type

| Name: Character_Data_Type | | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> The Character Data Type class is the parent class for data types used to classify the values of attributes in class descriptions, i.e., product labels and character digital objects. | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

Complex

| Name: Complex | | | Version Id: 1.0.0.0 |
|----------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> Complex Binary Data Types | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ComplexLSB16

| Name: ComplexLSB16 | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> Complex number consisting of two LSB 8 byte decimal reals. | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

ComplexLSB8

| Name: ComplexLSB8 | | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> Complex number consisting of two LSB 4 byte decimal reals. | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |

| | |
|--------------------------|----------------------------|
| Name: ComplexLSB8 | Version Id: 1.0.0.0 |
| No Pattern | |

ComplexMSB16

| | | | |
|-------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ComplexMSB16 | Version Id: 1.0.0.0 | | |
| <i>Description</i> Complex number consisting of two MSB 8 byte decimal reals. | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| | No Pattern | | |

ComplexMSB8

| | | | |
|-------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: ComplexMSB8 | Version Id: 1.0.0.0 | | |
| <i>Description</i> Complex number consisting of two MSB 4 byte decimal reals. | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| | No Pattern | | |

Data_Type

| | | | |
|--------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: Data_Type | Version Id: 1.0.0.0 | | |
| <i>Description</i> The Data Type class is the abstract parent class for several classes of data types. | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| | No Pattern | | |

Decimal_Integer

| | | | |
|------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: Decimal_Integer | Version Id: 1.0.0.0 | | |
| <i>Description</i> Decimal Integer Binary Data Types | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| | No Pattern | | |

Decimal_Real

| | |
|-----------------------------------------------------|----------------------------|
| Name: Decimal_Real | Version Id: 1.0.0.0 |
| <i>Description</i> Floating Point Binary Data Types | |

| Name: Decimal_Real | | | Version Id: 1.0.0.0 |
|----------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

IEEE754LSBDouble

| Name: IEEE754LSBDouble | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> IEEE 754 LSB double precision floating point | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

IEEE754LSBSingle

| Name: IEEE754LSBSingle | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> IEEE 754 LSB single precision floating point | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

IEEE754MSBDouble

| Name: IEEE754MSBDouble | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> IEEE 754 MSB double precision floating point | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

IEEE754MSBSingle

| Name: IEEE754MSBSingle | | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| <i>Description</i> IEEE 754 MSB single precision floating point | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

SignedBitString

| | | |
|--------------------------------------|----------------------------|------------------------------------|
| Name: SignedBitString | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed Bit String | | |
| <i>Schema Base Type:</i> None | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None |
| <i>No Pattern</i> | | |

SignedByte

| | | |
|--------------------------------------|----------------------------|------------------------------------|
| Name: SignedByte | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 8-bit byte | | |
| <i>Schema Base Type:</i> None | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None |
| <i>No Pattern</i> | | |

SignedLSB2

| | | |
|-------------------------------------------------------------|----------------------------|------------------------------------|
| Name: SignedLSB2 | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 2's-complement LSB 2-byte integer | | |
| <i>Schema Base Type:</i> None | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None |
| <i>No Pattern</i> | | |

SignedLSB4

| | | |
|-------------------------------------------------------------|----------------------------|------------------------------------|
| Name: SignedLSB4 | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 2's-complement LSB 4-byte integer | | |
| <i>Schema Base Type:</i> None | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None |
| <i>No Pattern</i> | | |

SignedLSB8

| | | |
|-------------------------------------------------------------|--|----------------------------|
| Name: SignedLSB8 | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 2's-complement LSB 8-byte integer | | |
| <i>Schema Base Type:</i> None | | |

| | | | |
|----------------------------|----------------------------|---------------------------------|---------------------------------|
| Name: SignedLSB8 | | | Version Id: 1.0.0.0 |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

SignedMSB2

| | | | |
|-------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|
| Name: SignedMSB2 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 2's-complement MSB 2-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

SignedMSB4

| | | | |
|-------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|
| Name: SignedMSB4 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 2's-complement MSB 4-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

SignedMSB8

| | | | |
|-------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|
| Name: SignedMSB8 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Signed 2's-complement MSB 8-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UTF8_Short_String_Collapsed

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|--------------------------------|
| Name: UTF8_Short_String_Collapsed | | | Version Id: 1.0.0.0 |
| <i>Description</i> The UTF8_Short_String_Collapsed class indicates a limited length, whitespace-collapsed string constrained to the UTF-8 character encoding. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

UTF8_Short_String_Preserved

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| Name: UTF8_Short_String_Preserved | Version Id: 1.0.0.0 | | |
| <i>Description</i> The UTF8_Short_String_Preserved class indicates a limited length, whitespace-preserved string constrained to the UTF-8 character encoding. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> 255 |
| <i>No Pattern</i> | | | |

UTF8_String

| | | | |
|----------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Name: UTF8_String | Version Id: 1.0.0.0 | | |
| <i>Description</i> The UTF8_String class indicates a limited length UTF8 text string with whitespaces removed. | | | |
| <i>Schema Base Type:</i> token | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UTF8_Text_Preserved

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| Name: UTF8_Text_Preserved | Version Id: 1.0.0.0 | | |
| <i>Description</i> The UTF8_Text_Preserved class indicates an unlimited length, whitespace-preserved text string constrained to the UTF-8 character encoding. | | | |
| <i>Schema Base Type:</i> string | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> 1 | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedBitString

| | | | |
|----------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedBitString | Version Id: 1.0.0.0 | | |
| <i>Description</i> Unsigned Bit String | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedByte

| | |
|----------------------------------------|----------------------------|
| Name: UnsignedByte | Version Id: 1.0.0.0 |
| <i>Description</i> Unsigned 8-bit byte | |

| | | | |
|----------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedByte | | | Version Id: 1.0.0.0 |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedLSB2

| | | | |
|---------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedLSB2 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Unsigned 2's-complement LSB 2-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedLSB4

| | | | |
|---------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedLSB4 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Unsigned 2's-complement LSB 4-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedLSB8

| | | | |
|---------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedLSB8 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Unsigned 2's-complement LSB 8-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedMSB2

| | | | |
|---------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedMSB2 | | | Version Id: 1.0.0.0 |
| <i>Description</i> Unsigned 2's-complement MSB 2-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedMSB4

| | | | |
|---------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedMSB4 | Version Id: 1.0.0.0 | | |
| <i>Description</i> Unsigned 2's-complement MSB 4-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

UnsignedMSB8

| | | | |
|---------------------------------------------------------------|----------------------------|------------------------------------|------------------------------------|
| Name: UnsignedMSB8 | Version Id: 1.0.0.0 | | |
| <i>Description</i> Unsigned 2's-complement MSB 8-byte integer | | | |
| <i>Schema Base Type:</i> None | | | |
| <i>Minimum Value:</i> None | <i>Maximum Value:</i> None | <i>Minimum Characters:</i> None | <i>Maximum Characters:</i> None |
| <i>No Pattern</i> | | | |

Chapter 15. Units of Measure in the pds namespace.

These classes define the units of measure.

Unit_Of_Measure

| | |
|--------------------------------------------------------------------------------|----------------------------|
| Name: Unit_Of_Measure | Version Id: 1.1.0.0 |
| <i>Description:</i> The Unit_Of_Measure is a definite magnitude of a quantity. | |
| | <i>Unit Id</i> |
| | None |

Units_of_Acceleration

| | |
|---------------------------------------------------------------------------|----------------------------|
| Name: Units_of_Acceleration | Version Id: 1.0.0.0 |
| <i>Description:</i> Units_of_Acceleration is a magnitude of acceleration. | |
| | <i>Unit Id</i> |
| | cm/s**2 |
| | km/s**2 |
| | m/s**2 |

Units_of_Amount_Of_Substance

| | |
|--------------------------------------------------------------------------|----------------------------|
| Name: Units_of_Amount_Of_Substance | Version Id: 1.0.0.0 |
| <i>Description:</i> Units_of_Amount_Of_Substance is a magnitude of mass. | |
| | <i>Unit Id</i> |
| | mol |

Units_of_Angle

| | |
|-------------------------------------------------------------|----------------------------|
| Name: Units_of_Angle | Version Id: 1.0.0.0 |
| <i>Description:</i> Units_of_Angle is a magnitude of angle. | |
| | <i>Unit Id</i> |
| | arcmin |
| | arcsec |
| | deg |
| | hr |
| | mrad |
| | rad |

Units_of_Angular_Velocity

| Name: Units_of_Angular_Velocity | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------|---------|---------------------------------------------------------------|
| Description: Units_of_Angular_Velocity is a magnitude of speed of rotation. | | |
| | Unit Id | |
| | deg/day | The abbreviated unit for Units_of_Angular_Velocity is deg/day |
| | deg/s | The abbreviated unit for Units_of_Angular_Velocity is deg/s |
| | rad/s | The abbreviated unit for Units_of_Angular_Velocity is rad/s |

Units_of_Area

| Name: Units_of_Area | | Version Id: 1.0.0.0 |
|----------------------------------------------------|---------|------------------------------------------------|
| Description: Units_of_Area is a magnitude of area. | | |
| | Unit Id | |
| | m**2 | The abbreviated unit for Units_of_Area is m**2 |

Units_of_Current

| Name: Units_of_Current | | Version Id: 1.1.0.0 |
|----------------------------------------------------------|---------|-------------------------------------------------|
| Description: Units_of_Current is a magnitude of current. | | |
| | Unit Id | |
| | A | The abbreviated unit for Units_of_Current is A |
| | mA | The abbreviated unit for Units_of_Current is mA |

Units_of_Energy

| Name: Units_of_Energy | | Version Id: 1.0.0.0 |
|--------------------------------------------------------|---------|----------------------------------------------------------------|
| Description: Units_of_Energy is a magnitude of energy. | | |
| | Unit Id | |
| | J | The abbreviated unit for joules in Units_of_Energy. |
| | MeV | The abbreviated unit for megaelectronvolts in Units_of_Energy. |
| | eV | The abbreviated unit for electronvolts in Units_of_Energy. |
| | keV | The abbreviated unit for kiloelectronvolts Units_of_Energy. |

Units_of_Frame_Rate

| Name: Units_of_Frame_Rate | | Version Id: 1.0.0.0 |
|------------------------------------------------------------|--|---------------------|
| Description: Units_of_Frame_Rate is a magnitude of change. | | |

| | | |
|----------------------------------|----------------------------------------------------------|--|
| Name: Units_of_Frame_Rate | Version Id: 1.0.0.0 | |
| | <i>Unit Id</i> | |
| frames/s | The abbreviated unit for Units_of_Frame_Rate is frames/s | |

Units_of_Frequency

| | | |
|---------------------------------------------------------------------|---------------------------------------------------|--|
| Name: Units_of_Frequency | Version Id: 1.0.0.0 | |
| <i>Description:</i> Units_of_Frequency is a magnitude of frequency. | | |
| | <i>Unit Id</i> | |
| Hz | The abbreviated unit for Units_of_Frequency is Hz | |

Units_of_Length

| | | |
|---------------------------------------------------------------|--------------------------------------------------------------------|--|
| Name: Units_of_Length | Version Id: 1.0.0.0 | |
| <i>Description:</i> Units_of_Length is a magnitude of length. | | |
| | <i>Unit Id</i> | |
| AU | The abbreviated unit for Units_of_Length is AU (astronomical unit) | |
| Angstrom | The abbreviated unit for Units_of_Length is Angstrom | |
| cm | The abbreviated unit for Units_of_Length is cm | |
| km | The abbreviated unit for Units_of_Length is km | |
| m | The abbreviated unit for Units_of_Length is m | |
| micrometer | The abbreviated unit for Units_of_Length is micrometer (10-6 m) | |
| mm | The abbreviated unit for Units_of_Length is mm (10-3 m) | |
| nm | The abbreviated unit for Units_of_Length is nm (10-9 m) | |

Units_of_Map_Scale

| | | |
|--------------------------------------------------------------------------|----------------------------------------------------------|--|
| Name: Units_of_Map_Scale | Version Id: 1.0.0.0 | |
| <i>Description:</i> Units_of_Map_Scale is a proportional representation. | | |
| | <i>Unit Id</i> | |
| km/pixel | The abbreviated unit for Units_of_Map_Scale is km/pixel | |
| m/pixel | The abbreviated unit for Units_of_Map_Scale is m/pixel | |
| mm/pixel | The abbreviated unit for Units_of_Map_Scale is mm/pixel | |
| pixel/deg | The abbreviated unit for Units_of_Map_Scale is pixel/deg | |

Units_of_Mass

| Name: Units_of_Mass | Version Id: 1.0.0.0 |
|-----------------------------------------------------------|----------------------------------------------|
| <i>Description:</i> Units_of_Mass is a magnitude of mass. | |
| | <i>Unit Id</i> |
| g | The abbreviated unit for Units_of_Mass is g |
| kg | The abbreviated unit for Units_of_Mass is kg |

Units_of_Misc

| Name: Units_of_Misc | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------|-------------------------------------------------------|
| <i>Description:</i> Units_of_Misc provides an assortment of derived units. | |
| | <i>Unit Id</i> |
| DN | The abbreviated unit for Units_of_Misc is DN |
| electron/DN | The abbreviated unit for Units_of_Misc is electron/DN |
| pixel | The abbreviated unit for Units_of_Misc is pixel |

Units_of_None

| Name: Units_of_None | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------------|---------------------------------------------------|
| <i>Description:</i> Units_of_None indicates that no unit of measure applies. | |
| | <i>Unit Id</i> |
| none | Dimensionless quantities have no abbreviated unit |

Units_of_Optical_Path_Length

| Name: Units_of_Optical_Path_Length | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <i>Description:</i> Units_of_Optical_Path_Length is a magnitude of optical path length. | |
| | <i>Unit Id</i> |
| airmass | The abbreviated unit for Units_of_Optical_Path_Length is airmass |

Units_of_Pixel_Resolution_Angular

| Name: Units_of_Pixel_Resolution_Angular | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <i>Description:</i> The class Units_of_Pixel_Resolution_Angular provides the units in which pixel resolution is defined in an angular context. Angular pixel resolution, the inverse of angular pixel scale, indicates the angular size subtended by a single pixel (e.g., 6.5 deg/pixel, 1.0 arcsec/pixel). | |
| | <i>Unit Id</i> |
| arcsec/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Angular is arcsec/pixel |
| deg/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Angular is deg/pixel |

| Name: Units_of_Pixel_Resolution_Angular | | Version Id: 1.0.0.0 |
|------------------------------------------------|--------------|----------------------------------------------------------------------------|
| | radian/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Angular is radian/pixel |

Units_of_Pixel_Resolution_Linear

| Name: Units_of_Pixel_Resolution_Linear | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------|
| <i>Description:</i> The class Units_of_Pixel_Resolution_Linear provides the units in which pixel resolution is defined in an linear context. Linear pixel resolution, the inverse of linear pixel scale, indicates the linear size of a pixel typically expressed in terms of a length per single pixel (e.g., 6.5 m/pixel, 1.0 km/pixel). | | |
| | <i>Unit Id</i> | |
| | km/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Linear is km/pixel |
| | m/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Linear is m/pixel |
| | mm/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Linear is mm/pixel |

Units_of_Pixel_Resolution_Map

| Name: Units_of_Pixel_Resolution_Map | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The class Units_of_Pixel_Resolution_Map provides the units for pixel resolution in a cartographic context. Map pixel resolution indicates the size of a pixel in a digital map expressed in terms of surface distance per single pixel. This value is dependent on the definition of the map projection or radius to the object. (e.g., 6.5 m/pixel, 1.0 km/pixel) Note: In a cartographic context, degree is interpreted as a surface distance measured in degrees of latitude or longitude. | | |
| | <i>Unit Id</i> | |
| | deg/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is deg/pixel where 'deg' is interpreted as a surface distance measured in degrees of latitude or longitude |
| | km/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is km/pixel |
| | m/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is m/pixel |
| | mm/pixel | The abbreviated unit for Units_of_Pixel_Resolution_Map is mm/pixel |

Units_of_Pixel_Scale_Angular

| Name: Units_of_Pixel_Scale_Angular | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------|
| <i>Description:</i> The class Units_of_Pixel_Scale_Angular provides the units in which a pixel scale is defined in an angular context. Pixel scale, in terms of angular units, indicates the angular size of a pixel typically expressed as pixel per unit angle (e.g., 0.125 pixel/deg , 0.5 pixel/arcsec). | | |
| | <i>Unit Id</i> | |
| | pixel/arcsec | The abbreviated unit for Units_of_Pixel_Scale_Angular is pixel/arcsec |

| Name: Units_of_Pixel_Scale_Angular | | Version Id: 1.0.0.0 |
|-------------------------------------------|--------------|-----------------------------------------------------------------------|
| | pixel/deg | The abbreviated unit for Units_of_Pixel_Scale_Angular is pixel/deg |
| | pixel/radian | The abbreviated unit for Units_of_Pixel_Scale_Angular is pixel/radian |

Units_of_Pixel_Scale_Linear

| Name: Units_of_Pixel_Scale_Linear | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|
| <i>Description:</i> The class Units_of_Pixel_Scale_Linear provides the units in which a pixel scale is defined in a linear context. Pixel scale, in terms of linear units, is the inverse distance represented by one pixel in an image, typically expressed as pixel per unit length (0.125 pixel/m , 0.5 pixel/km). | | |
| | <i>Unit Id</i> | |
| | pixel/km | The abbreviated unit for Units_of_Pixel_Scale_Linear is pixel/km |
| | pixel/m | The abbreviated unit for Units_of_Pixel_Scale_Linear is pixel/m |
| | pixel/mm | The abbreviated unit for Units_of_Pixel_Scale_Linear is pixel/mm |

Units_of_Pixel_Scale_Map

| Name: Units_of_Pixel_Scale_Map | | Version Id: 1.0.0.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Description:</i> The class Units_of_Pixel_Scale_Map provides the units for pixel scale in a cartographic context. Map pixel scale is the inverse distance represented by one pixel in a digital map, expressed as pixel per unit length in terms of surface distance. For example, 4 pixel/deg image on Venus = 4 pixel/deg image on Mars = 1440x720 pixels. Note: In a cartographic context, degree is interpreted as a surface distance measured in degrees of latitude or longitude. | | |
| | <i>Unit Id</i> | |
| | pixel/deg | The abbreviated unit for Units_of_Pixel_Scale_Map is pixel/deg where 'deg' is interpreted as a surface distance measured in degrees of latitude or longitude |

Units_of_Pressure

| Name: Units_of_Pressure | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------|----------------|--------------------------------------------------------------------|
| <i>Description:</i> Units_of_Pressure is a magnitude of pressure. | | |
| | <i>Unit Id</i> | |
| | Pa | The abbreviated unit for Units_of_Pressure is Pa |
| | bar | The abbreviated unit for Units_of_Pressure is bar (10^{**5} Pa) |
| | hPa | The abbreviated unit for Units_of_Pressure is hPa (100 Pa) |
| | mbar | The abbreviated unit for Units_of_Pressure is mbar (100 Pa) |

Units_of_Radiance

| Name: Units_of_Radiance | | Version Id: 1.1.0.0 |
|-------------------------------------------------------------------|----------------|-------------------------------------------------------------|
| <i>Description:</i> Units_of_Radiance is a magnitude of radiance. | | |
| | <i>Unit Id</i> | |
| | W*m**-2*sr**-1 | The abbreviated unit of Units_of_Radiance is W*m**-2*sr**-1 |
| | W/(m**2*sr) | The abbreviated unit of Units_of_Radiance is W/(m**2*sr) |

Units_of_Rates

| Name: Units_of_Rates | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------|----------------|-------------------------------------------------------|
| <i>Description:</i> Units_of_Rate is a magnitude of change. | | |
| | <i>Unit Id</i> | |
| | counts/bin | The abbreviated unit for Units_of_Rates is counts/bin |
| | kilobits/s | The abbreviated unit for Units_of_Rates is kilobits/s |

Units_of_Solid_Angle

| Name: Units_of_Solid_Angle | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------------------|----------------|-----------------------------------------------------|
| <i>Description:</i> Units_of_Solid_Angle is a magnitude of a solid angle. | | |
| | <i>Unit Id</i> | |
| | sr | The abbreviated unit for Units_of_Solid_Angle is sr |

Units_of_Spectral_Irradiance

| Name: Units_of_Spectral_Irradiance | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------|
| <i>Description:</i> A measure of the power of radiation at a particular frequency or wavelength that passes through a unit area. | | |
| | <i>Unit Id</i> | |
| | SFU | The abbreviated unit for Units_of_Spectral_Irradiance is SFU |
| | W*m**-2*Hz**-1 | The abbreviated unit for Units_of_Spectral_Irradiance is W*m**-2*Hz**-1 |
| | W*m**-2*nm**-1 | The abbreviated unit for Units_of_Spectral_Irradiance is W*m**-2*nm**-1 |
| | W*m**-3 | The abbreviated unit for Units_of_Spectral_Irradiance is W*m**-3 |
| | W/m**2/Hz | The abbreviated unit of Units_of_Spectral_Irradiance is W/m**2/Hz |
| | W/m**2/nm | The abbreviated unit of Units_of_Spectral_Irradiance is W/m**2/nm |

| Name: Units_of_Spectral_Irradiance | | Version Id: 1.0.0.0 |
|-------------------------------------------|------------------|---------------------------------------------------------------------------|
| | W/m**3 | The abbreviated unit of Units_of_Spectral_Irradiance is W/m**3 |
| | uW*cm**-2*um**-1 | The abbreviated unit for Units_of_Spectral_Irradiance is uW*cm**-2*um**-1 |
| | μW/cm**2/μm | The abbreviated unit for Units_of_Spectral_Radiance is μW/cm**2/μm |

Units_of_Spectral_Radiance

| Name: Units_of_Spectral_Radiance | | Version Id: 1.0.0.0 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------|
| <i>Description:</i> A measure of the power of radiation at a particular frequency or wavelength that passes through a unit area and a unit solid angle in a specified direction. | | |
| | <i>Unit Id</i> | |
| | W*m**-2*s-r**-1*Hz**-1 | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-2*s-r**-1*Hz**-1 |
| | W*m**-2*sr**-1*n-m**-1 | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-2*sr**-1*nm**-1 |
| | W*m**-2*s-r**-1*um**-1 | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-2*sr**-1*um**-1 |
| | W*m**-3*sr**-1 | The abbreviated unit for Units_of_Spectral_Radiance is W*m**-3*sr**-1 |
| | W/m**2/sr/Hz | The abbreviated unit of Units_of_Spectral_Radiance is W/m**2/sr/Hz |
| | W/m**2/sr/nm | The abbreviated unit of Units_of_Spectral_Radiance is W/m**2/sr/nm |
| | W/m**2/sr/μm | The abbreviated unit for Units_of_Spectral_Radiance is W/m**2/sr/μm |
| | W/m**3/sr | The abbreviated unit of Units_of_Spectral_Radiance is W/m**3/sr |
| | uW*cm**-2*s-r**-1*um**-1 | The abbreviated unit for Units_of_Spectral_Radiance is uW*cm**-2*s-r**-1*um**-1 |
| | μW/cm**2/sr/μm | The abbreviated unit for Units_of_Spectral_Radiance is μW/cm**2/sr/μm |

Units_of_Storage

| Name: Units_of_Storage | | Version Id: 1.0.0.0 |
|------------------------------------------------------------------------|----------------|--------------------------------------------------|
| <i>Description:</i> Units_of_Storage is an amount of computer storage. | | |
| | <i>Unit Id</i> | |
| | byte | The abbreviated unit of Units_of_Storage is byte |

Units_of_Temperature

| Name: Units_of_Temperature | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------|----------------|----------------------------|
| <i>Description:</i> Units_of_Temperature is a magnitude of temperature. | | |
| | <i>Unit Id</i> | |

| Name: Units_of_Temperature | | Version Id: 1.0.0.0 |
|-----------------------------------|------|------------------------------------------------------|
| | K | The abbreviated unit of Units_of_Temperature is K |
| | degC | The abbreviated unit of Units_of_Temperature is degC |

Units_of_Time

| Name: Units_of_Time | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------|--------------|--------------------------------------------------------|
| <i>Description:</i> Units_of_Time is a magnitude of time. | | |
| | | <i>Unit Id</i> |
| | day | The abbreviated unit for Units_of_Time is day |
| | hr | The abbreviated unit for Units_of_Time is hr |
| | julian day | The abbreviated unit for Units_of_Time is julian day |
| | microseconds | The abbreviated unit for Units_of_Time is microseconds |
| | min | The abbreviated unit for Units_of_Time is min |
| | ms | The abbreviated unit for Units_of_Time is ms |
| | s | The abbreviated unit for Units_of_Time is s |
| | yr | The abbreviated unit for Units_of_Time is yr |

Units_of_Velocity

| Name: Units_of_Velocity | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------|------|----------------------------------------------------|
| <i>Description:</i> Units_of_Velocity is a magnitude of velocity. | | |
| | | <i>Unit Id</i> |
| | cm/s | The abbreviated unit for Units_of_Velocity is cm/s |
| | km/s | The abbreviated unit for Units_of_Velocity is km/s |
| | m/s | The abbreviated unit for Units_of_Velocity is m/s |

Units_of_Voltage

| Name: Units_of_Voltage | | Version Id: 1.0.0.0 |
|-----------------------------------------------------------------|----|-------------------------------------------------|
| <i>Description:</i> Units_of_Voltage is a magnitude of voltage. | | |
| | | <i>Unit Id</i> |
| | V | The abbreviated unit for Units_of_Voltage is V |
| | mV | The abbreviated unit for Units_of_Voltage is mV |

Units_of_Volume

| Name: Units_of_Volume | | Version Id: 1.0.0.0 |
|---------------------------------------------------------------|----------------|-------------------------------------------------------|
| <i>Description:</i> Units_of_Volume is a magnitude of volume. | | |
| | <i>Unit Id</i> | |
| | L | The abbreviated unit for Units_of_Volume is L |
| | m^{**3} | The abbreviated unit for Units_of_Volume is m^{**3} |

Units_of_Wavenumber

| Name: Units_of_Wavenumber | | Version Id: 1.0.0.0 |
|-------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------|
| <i>Description:</i> Units_of_Wavenumber is the number of waves that occur per unit distance, i.e., inverse length | | |
| | <i>Unit Id</i> | |
| | 1/cm | The abbreviated unit of Units_of_Wavenumber is 1/cm |
| | 1/m | The abbreviated unit of Units_of_Wavenumber is 1/m |
| | 1/nm | The abbreviated unit of Units_of_Wavenumber is 1/nm |
| | cm^{**-1} | The abbreviated unit for Units_of_Wavenumber is cm^{**-1} |
| | m^{**-1} | The abbreviated unit for Units_of_Wavenumber is m^{**-1} |
| | nm^{**-1} | The abbreviated unit for Units_of_Wavenumber is nm^{**-1} |