SRS, Data Fields

[Device Manager File List [out]](../Device Manager File List.docx" \l "sel_1596b6c1" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/Device Manager File List.docx#sel_1596b6c1; In Product Outlink)

[Device Manager System Spec [out]](../Device Manager System Spec.docx" \l "sel_10203090" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/Device Manager System Spec.docx#sel_10203090; In Product Outlink)

[Common Tree Control Functionality [in]](Common Tree Control Functionality.docx" \l "sel_d2234d83" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Common Tree Control Functionality.docx#sel_d2234d83; In Product Inlink)

[Connection View [in]](Connection View.docx" \l "sel_f091cc23" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection View.docx#sel_f091cc23; In Product Inlink)

[Part Number [in]](Part Number.docx" \l "sel_06619001" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Part Number.docx#sel_06619001; In Product Inlink)

[Script Manager [in]](Script Manager.docx" \l "sel_4e7c1b91" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Script Manager.docx#sel_4e7c1b91; In Product Inlink)

[Template Palette [in]](Template Palette.docx" \l "sel_f9fffae7" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_f9fffae7; In Product Inlink)

[User Manager Data Fields Test [in]](../3_F_Tests/User Manager/User Manager Data Fields Test.docx" \l "sel_ab67a172" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/User Manager/User Manager Data Fields Test.docx#sel_ab67a172; Dependent Inlink)

[Device Data Fields Test [in]](../3_F_Tests/Node Attributes View/Device Data Fields Test.docx" \l "sel_a68024ac" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/Node Attributes View/Device Data Fields Test.docx#sel_a68024ac; Dependent Inlink)

[Folder Data Fields Test [in]](../3_F_Tests/Node Attributes View/Folder Data Fields Test.docx" \l "sel_224ec342" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/Node Attributes View/Folder Data Fields Test.docx#sel_224ec342; Dependent Inlink)

[Password Manager Test [in]](../3_F_Tests/Password Manager/Password Manager Test.docx" \l "sel_bcd2c196" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/Password Manager/Password Manager Test.docx#sel_bcd2c196; Dependent Inlink)

[Custom View [in]](Custom View.docx" \l "sel_eb09b991" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Custom View.docx#sel_eb09b991; In Product Inlink)

# Introduction

## Purpose

This document defines the data fields available within the SEL *Device Manager* and the validation of these fields.

## Scope

This document covers all of the data fields available for use in the SEL *Device Manager* that come from the SEL *Device Manager* schema. Information for each data field include the identifier for that field, the data type of the field, the range of valid values, default values and what message is displayed to the user if a value is entered out of range.

## Definitions, Acronyms, and Abbreviations

*Field Name* - The label of a control referencing a data field within the user interface.

[Device Manager System Document Glossary [out]](Device Manager System Document Glossary.docx" \l "sel_9fe313af" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Device Manager System Document Glossary.docx#sel_9fe313af; In Product Outlink)

# Data Field Definitions

## Default Field Attributes

### Default Ranges

The default range of valid values shall be as follows except where specifically stated otherwise:

|  |  |
| --- | --- |
| **Field Data Type** | **Range** |
| string | Printable ascii characters. 131070 max characters. |
| boolean | True, False |
| integer | -2147483648 to +2147483647 |

### Default Error Messages

The default error message for violating a given rule shall be as follows except where specifically stated otherwise:

|  |  |  |
| --- | --- | --- |
| **Rule Violated** | **Default Error Message** | **Notes** |
| Maximum character length. | "[Field] is too long. Maximum field length is [MaxChars]." | [Field] is the field name.  [MaxChars] is the maximum number of characters allowed for that field. |
| Cannot be empty. | "[Field] must not be empty." | [Field] is the field name. |

## Data Fields

### Device Fields

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_615f1d31" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_615f1d31; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Device Name  [Connection View [in]](Connection View.docx" \l "sel_7948162d" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection View.docx#sel_7948162d; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_c99d0b1a" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_c99d0b1a; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_826cae3c" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_826cae3c; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_1b023613" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_1b023613; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_68c65201" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_68c65201; In Product Inlink) | string | 128 characters max. Cannot be empty. | “[Device Type] (n)” where [Device Type] is the type of the Device and (n) is optional, n being a positive number starting from 2 and incrementing until a unique name is found. | If name is a duplicate:  "A sibling device with this name already exists in the Connection Explorer. Please enter a unique name." | No two devices that share the same Connection Explorer parent can have the same name. |
| Device Type  [Connection View [in]](Connection View.docx" \l "sel_07f262be" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection View.docx#sel_07f262be; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_3ec239f5" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_3ec239f5; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_56e1fd9f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_56e1fd9f; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_7551ca07" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_7551ca07; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_01c90dbd" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_01c90dbd; In Product Inlink) | string | 32 characters max.  Cannot be empty. |  |  | Read-only field. |
| In Service  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_ad693ecc" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_ad693ecc; In Product Inlink) | boolean |  | False |  |  |
| Is Managed  [Connection Engine [in]](Connection Engine.docx" \l "sel_ef7cdd0f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection Engine.docx#sel_ef7cdd0f; In Product Inlink)  [Change Password [in]](Change Password.docx" \l "sel_692b97d6" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Change Password.docx#sel_692b97d6; In Product Inlink) | boolean |  | False |  | Available only if Device Class is Security Gateway. |
| Serial Number | string | 64 characters max. |  |  |  |
| Global Device ID  [Import Export [in]](Import Export.docx" \l "sel_5d76947f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Import Export.docx#sel_5d76947f; In Product Inlink) | string | 64 characters max.  Cannot be empty. | Auto-generated unique value. | If not unique:  "Another device uses this global device ID. Please enter a unique global device ID."  If set to "SELF", case insensitive:  "The specified global device id is invalid. 'SELF' is a reserved keyword."  If starts with "SEL\_RESERVED", case sensitive:  "Global Device Id must not start with SEL\_RESERVED." | Must be unique.  Cannot have the value of "SELF", case insensitive.  Cannot start with "SEL\_RESERVED", case sensitive.  [Import Export [in]](Import%20Export.docx#sel_5d76947f) |
| Firmware Version | string | 64 characters max. |  |  |  |
| Part Number  [Part Number [in]](Part Number.docx" \l "sel_0a289363" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Part Number.docx#sel_0a289363; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010%20Data%20Importer.docx#sel_921d3aae) | string | 64 characters max. |  |  |  |
| FID String  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_b5f68eb0" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_b5f68eb0; In Product Inlink) | string | 64 characters max. |  |  |  |
| Setting Version Number | nullable integer | null, 0 – 999 | null |  | Read-only field.  Updated by Device Manager when importing settings.  Displayed as 3 numeric characters, zero filled. |
| WhoAreYou Response | string | 64 characters max. |  |  |  |
| Class  [Connection View [in]](Connection View.docx" \l "sel_47450918" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection View.docx#sel_47450918; In Product Inlink) | enumeration | Default, Pass Through Server, Communications Processor, RTAC, Security Gateway | Default |  | This field specifies whether or not this device allows for the passing through of communications to other, connected devices. |
| Number of Ports | integer | 0-10000 | 0 | If out of range:  "Number of Ports must be between 0 and 10000." | Available only if Device Class is Passthrough Server. |
| Description  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_df2b4275" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_df2b4275; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_95073958" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_95073958; In Product Inlink) | string |  |  |  |  |
| [Custom Attributes](#_Custom_Attributes) | list of Name, Value pairs | No limit on the number of custom attributes a user can add. | No custom attributes. |  |  |
| Generate Password Script | string | Empty or select one from the list of names for scripts meeting the following criteria:   1. Generate Password script 2. Device type is the same as the current device's type OR the script is a general script (no device type). |  |  |  |
| Update Child Password Script | string | Empty or select one from the list of names for scripts meeting the following criteria:   1. Update Child Password script 2. Device type is the same as the current device's type OR the script is a general script (no device type). |  |  |  |
| [Device Passwords](#_Device_Passwords) | list of sets of Access Level, Password and Set Password Script values | 1 set of Password and Set Password Script values for each Access Level. |  |  | Users cannot add or delete Device Passwords. |
| [Documents](#_Documents) | list of Document Name, Description, Date tuples | No limit on the number of documents a user can add. | No documents. |  |  |

### Device Passwords

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Access Level | string | 32 characters max.  1 from a list of Access Levels based on the Device Type of the Device. |  |  | Read-only field. |
| Password  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_46d4209f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_46d4209f; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_1d131e9a" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_1d131e9a; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_642e57b9" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_642e57b9; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_ca2d68ae" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_ca2d68ae; In Product Inlink) | string | 128 characters max. | Factory default device password for the given device type and access level. |  |  |
| Set Password Script | string | Empty or select one from the list of names for scripts meeting the following criteria:   1. Set Password script 2. Device type is the same as the current device's type OR the script is a general script (no device type). |  |  |  |

### Connection View Folder Fields

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_991bf69c" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_991bf69c; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Folder Name  [Connection View [in]](Connection View.docx" \l "sel_9b81070b" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection View.docx#sel_9b81070b; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_39fbe0e8" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_39fbe0e8; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_b1bc0067" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_b1bc0067; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_4907a329" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_4907a329; In Product Inlink) | string | 128 characters max.  Cannot be empty. | “New Folder (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If name is a duplicate:  "A sibling folder with this name already exists. Please enter a unique name." | No two folders that share the same Connection Explorer parent can have the same name. |
| Folder Type  [Connection View [in]](Connection View.docx" \l "sel_7b907a1d" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Connection View.docx#sel_7b907a1d; In Product Inlink)  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_5be9807e" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_5be9807e; In Product Inlink)  [Template Palette [in]](Template Palette.docx" \l "sel_6d94c8d4" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_6d94c8d4; In Product Inlink) | string | 128 characters max. | The first folder type listed in the SEL Master Database, which is 'Area' by default. If no folder types are listed in the SEL Master Database, 'Area' shall be used. |  |  |
| Description  [Template Palette [in]](Template Palette.docx" \l "sel_bfd31992" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Template Palette.docx#sel_bfd31992; In Product Inlink) | string |  |  |  |  |
| [Custom Attributes](#_Custom_Attributes) | list of Name, Value pairs | No limit on the number of custom attributes a user can add. | No custom attributes. |  |  |
| [Documents](#_Documents) | list of Document Name, Description, Date tuples | No limit on the number of documents a user can add. | No documents. |  |  |

### Custom View Folder Fields

[Custom View Folder Data Fields Test [in]](../3_F_Tests/Custom View/Custom View Folder Data Fields Test.docx" \l "sel_8432fcd9" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/Custom View/Custom View Folder Data Fields Test.docx#sel_8432fcd9; Dependent Inlink)

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_05ccf678" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_05ccf678; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Folder Name | string | 128 characters max.  Cannot be empty. | “New Folder (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If name is a duplicate:  "A sibling folder with this name already exists. Please enter a unique name." | No two folders that share the same Custom Explorer parent can have the same name. |
| Description | string |  |  |  |  |

### [Future]Custom View Fields

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Custom View Name | string | 128 characters max.  Cannot be empty. |  | If name is a duplicate:  "A custom view with this name already exists. Please enter a unique name." | No two *custom views* for a given user can have the same name. |
| Description | string |  |  |  |  |

### Custom Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Name | string | 128 characters max. Cannot be empty. |  |  |  |
| Value | string | 128 characters max. |  |  |  |

### Documents

[Document Attachments [in]](Document Attachments.docx" \l "sel_03d6ba52" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Document Attachments.docx#sel_03d6ba52; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Document Name | string | 255 characters max. |  |  |  |
| Description | string | 255 characters max. |  |  |  |
| Date | timestamp |  |  |  | Stored in the database in UTC and converted to local time zone when displayed. |

### Script Fields

[Script Manager Data Fields Test [in]](../3_F_Tests/Script%20Manager/Script%20Manager%20Data%20Fields%20Test.docx#sel_1056991c)

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_a77cfaff" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_a77cfaff; In Product Inlink)

[Script Manager [in]](Script Manager.docx" \l "sel_db98e94f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Script Manager.docx#sel_db98e94f; In Product Inlink)

[Script Editor [in]](Script Editor.docx" \l "sel_4f0b05ac" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Script Editor.docx#sel_4f0b05ac; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Script Name | string | 128 characters max.  Cannot be empty. | “New Script (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If name is a duplicate:  "A script with this name already exists. Please enter a unique name." | Must be unique.  [Import Export [in]](Import Export.docx" \l "sel_a051c52f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Import Export.docx#sel_a051c52f; In Product Inlink) |
| Script Text | string |  |  |  |  |
| Description | string |  |  |  |  |

### Titled Password Fields

[Password Manager [in]](Password%20Manager.docx#sel_31369c30)

[SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_106e78e1" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_106e78e1; In Product Inlink)

[Script Editor [in]](Script Editor.docx" \l "sel_6941a497" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Script Editor.docx#sel_6941a497; In Product Inlink)

[Password Manager Data Fields Test [in]](../3_F_Tests/Password Manager/Password Manager Data Fields Test.docx" \l "sel_782f900f" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/Password Manager/Password Manager Data Fields Test.docx#sel_782f900f; Dependent Inlink)

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_7e879dd2" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_7e879dd2; In Product Inlink)

[Password Manager [in]](Password Manager.docx" \l "sel_3cde029a" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Password Manager.docx#sel_3cde029a; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Password Title  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_78872c07" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_78872c07; In Product Inlink) | string | 128 characters max.  Cannot be empty. | “New Password (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If name is a duplicate:  "A password with this name already exists. Please enter a unique name." | Must be unique. |
| Username  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_9ef0fb0a" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_9ef0fb0a; In Product Inlink) | string | 32 characters max. |  |  |  |
| Password  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_9f77fffb" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_9f77fffb; In Product Inlink) | string | 64 characters max. |  |  |  |
| Description | string |  |  |  |  |

### Connection Fields

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_1e9d2936" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_1e9d2936; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Connection Type  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_10244ea3" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_10244ea3; In Product Inlink) | enumeration | Serial, Network, Modem | Serial |  | Setting to Serial enables Serial Connection Fields.  Setting to Network enables Network Connection Fields.  Setting to Modem enables Modem Connection Fields. |
| Pass Through Port  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_e7f886d3" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_e7f886d3; In Product Inlink) | integer | 0-65535 |  | If out of range:  "Pass Through Port must be between 0 and 65535" | The port number that this device is connected to on its parent device. |
| Legacy Mode Enabled | boolean |  | False |  | Available only if Device Class is RTAC. |
| Access Script | string | Empty or select one from the list of names for scripts meeting the following criteria:   1. Access script 2. Device type is the same as the current device's type OR the script is a general script (no device type). |  |  |  |
| Terminate Script | string | Empty or select one from the list of names for scripts meeting the following criteria:   1. Terminate script 2. Device type is the same as the current device's type OR the script is a general script (no device type). |  |  |  |
| First Delay Time | integer | 0-2147483647 | 3 | If out of range:  "First Delay Time must be between 0 and 2147483647" | The field's value is in seconds.  Available only if Device Class is Passthrough Server. |
| Second Delay Time | integer | 0-2147483647 | 3 | If out of range:  "Second Delay Time must be between 0 and 2147483647" | The field's value is in seconds.  Available only if Device Class is Passthrough Server. |
| Termination String  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_e0d9eeae" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_e0d9eeae; In Product Inlink) | string | 16 characters max. | \004 |  | Available only if Device Class is Passthrough Server. |
| Description | string |  |  |  |  |

#### Modem Connection Fields

The fields shall be available when the Connection Type is set to Modem.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Device  [Import Export [in]](Import Export.docx" \l "sel_66ac9eeb" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Import Export.docx#sel_66ac9eeb; In Product Inlink) | string | The list of available COM ports on the user's PC. |  |  |  |
| Phone Number  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_ef768396" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_ef768396; In Product Inlink) | string | 32 characters max. |  |  |  |
| Data Speed | integer | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 | 9600 |  |  |
| AT String | string | 512 max characters. | AT&F&C1&D0 V1 S0=0 S2=43 S7=55 S8=6 M1 |  |  |
| XON/XOFF | boolean |  | False |  |  |
| Credentials | string | Empty or select one from the list of Titled Passwords. |  |  | Available only if the Device Type is SEL-3025. |

#### Network Connection Fields

The fields shall be available when the Connection Type is set to Network.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Host IP Address  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_2a55b75c" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_2a55b75c; In Product Inlink) | string | 0.0.0.0 to 255.255.255.255 | 0.0.0.0 | If out of range:  "Host IP Address must be between 0.0.0.0 and 255.255.255.255." |  |
| Port Number  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_66c79091" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_66c79091; In Product Inlink) | integer | 1-65535 | 23 | If out of range:  "Port Number must be between 1 and 65535." |  |
| HTTPS Port Number | integer | 1-65535 | 443 | If out of range:  "HTTPS Port Number must be between 1 and 65535." | Available only if Device Class is Security Gateway. |
| File Transfer Option  [SEL-5010 Data Importer [in]](SEL-5010 Data Importer.docx" \l "sel_d3fcce9e" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/SEL-5010 Data Importer.docx#sel_d3fcce9e; In Product Inlink) | enumeration | FTP, Telnet, RawTCP, SSH, HTTPS | Telnet |  |  |
| Credentials | string | Empty or select one from the list of Titled Password Titles. |  |  | Available only if any one of the following conditions is true.   1. File Transfer Option is FTP or SSH and Device Type is not SEL-3045. 2. The Device Type is SEL-3025. |

#### Serial Connection Fields

The fields shall be available when the Connection Type is set to Serial.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Device  [Import Export [in]](Import Export.docx" \l "sel_8c0b8f71" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Import Export.docx#sel_8c0b8f71; In Product Inlink) | string | The list of available COM ports on the user's PC. |  |  |  |
| Data Speed | integer | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 | 9600 |  |  |
| Data Bits | integer | 7, 8 | 8 |  |  |
| Stop Bits | integer | 1, 2 | 1 |  |  |
| Parity | string | None, Odd, Even | None |  |  |
| RTS/CTS | boolean |  | False |  |  |
| DTR | boolean |  | True |  |  |
| RTS | boolean |  | True |  |  |
| XON/XOFF | boolean |  | False |  |  |
| Credentials | string | Empty or select one from the list of Titled Password Titles. |  |  | Available only if the Device Type is SEL-3025 or SEL-3045 |

### Template Category Fields

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Name | string | 128 characters max.  Cannot be empty. | “New Category (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If name is a duplicate:  "A template category with this name already exists. Please enter a unique name." | Must be unique. |

### User

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_f84b2867" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_f84b2867; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| User Name | string | 80 characters max.  Cannot be empty. | “New User (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If not unique:  "Another user has this name. Please enter a unique name." | Must be unique. |
| Full Name | string | 128 characters max. |  |  |  |
| Description | string |  |  |  |  |
| Password | string | 80 characters max. |  |  |  |
| Associate with LDAP User | boolean |  | False |  |  |
| User must change password at next logon  [User Login [in]](User Login.docx" \l "sel_cb1ab262" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/User Login.docx#sel_cb1ab262; In Product Inlink) | boolean |  | False |  |  |
| Allow log on to AcSELerator Database  [User Login [in]](User Login.docx" \l "sel_3ba3da96" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/User Login.docx#sel_3ba3da96; In Product Inlink) | boolean |  | False |  | Read-only field. Its value is inherited from the User's group memberships.  If false, the User will be unable to log on to Device Manager. |
| [Group Membership](#_Group_Membership) |  |  |  |  |  |
| [Credentials](#_Credentials) |  |  |  |  |  |

### Group Membership

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_6dfc2b75" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_6dfc2b75; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Group Membership | list of Group names | No limit on the number of Groups of which a User may be a member. | No Group memberships. |  | A User associated with an LDAP user may only be a member of an LDAP group. Likewise, a local User may only be a member of a local group. |

### Group

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_181e35a4" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_181e35a4; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Group Name | string | 128 characters max.  Cannot be empty. | “New Group (n)” where (n) is optional and n is a positive number starting from 2 and incrementing until a unique name is found. | If not unique:  "Another group uses this name. Please enter a unique name."  If an attempt is made to rename an SEL provided group:  "An SEL provided group cannot be renamed." | Must be unique.  Cannot be changed if the group is SEL provided. |
| Description | string |  |  |  |  |
| Group DN | string |  |  |  | Settable only by selecting an LDAP group from a list of LDAP groups.  Set to empty if Associate with LDAP Group is false. |
| Associate with LDAP Group | boolean |  | False |  |  |
| Allow log on to AcSELerator Database  [User Login [in]](User Login.docx" \l "sel_4e383765" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/User Login.docx#sel_4e383765; In Product Inlink)  [User Management [in]](User Management.docx" \l "sel_f9ac19f2" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/User Management.docx#sel_f9ac19f2; In Product Inlink) | boolean |  | False |  | If false, all members of the Group will be unable to log on to Device Manager. |
| [Members](#_Members) |  |  |  |  |  |
| [Credentials](#_Credentials) |  |  |  |  |  |

### Members

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_5a2f0a87" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_5a2f0a87; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Members | list of User names | No limit on the number of the number of Users that are members of a Group. | No members. |  |  |

### Credentials

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_c45af431" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_c45af431; In Product Inlink)

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_bfd49c1a" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_bfd49c1a; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Credentials | list of Credentials  [SSCP Credentials](#_SSCP_Credentials) | No limit on the number of Credentials associated with a User or Group. | No Credentials. |  |  |

### SSCP Credentials

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_4d5c4a39" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_4d5c4a39; In Product Inlink)

[User Manager - User Credentials [in]](../3_F_Tests/User Manager/User Manager - User Credentials.docx" \l "sel_5ceac967" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/User Manager/User Manager - User Credentials.docx#sel_5ceac967; Dependent Inlink)

[User Manager - Group Credentials [in]](../3_F_Tests/User Manager/User Manager - Group Credentials.docx" \l "sel_f87bebc2" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/3_F_Tests/User Manager/User Manager - Group Credentials.docx#sel_f87bebc2; Dependent Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Group Name | String | 32 characters max. | The name of the *User* or *Group* to which the *SSCP Credential* is assigned. | If not unique:  "A credential with this name already exists. Please enter a unique name." | Must be unique. |
| Authentication Mode | enumeration | HMAC (SHA-1) or HMAC (SHA-256) | HMAC (SHA-256) |  |  |
| Encryption Mode | enumeration | AES-128 or AES-256 | AES-256 |  |  |
| Authentication Key | String | If Authentication Mode = HMAC (SHA-1), must be 40 characters.  If Authentication Mode = HMAC (SHA-256), must be 64 characters. | Random key value | If not unique:  “Key is already in use." | Must be unique. |
| Encryption Key | String | If Encryption Mode = AES-128, must be 32 characters.  If Encryption Mode = AES-256, must be 64 characters. | Random key value | If not unique:  “Key is already in use." | Must be unique. |

### LDAP Parameters

[LDAP Setup [in]](LDAP%20Setup.docx#sel_9baf1c5e)

[Node Attributes View [in]](Node Attributes View.docx" \l "sel_99e0fc00" \o "/selrm/Products/5000/5030/7_PC_Software/SubSystems/Device Manager/1_Spec/Node Attributes View.docx#sel_99e0fc00; In Product Inlink)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Data Type** | **Range** | **Default Value** | **Error Messages** | **Usage Notes/Description** |
| Server Name | string | 255 characters max. |  |  |  |
| Enable TLS | Boolean |  | True |  | Enable/disable usage of TLS. |
| Port Number | int | 1-65535 | 389 | If out of range:  "Port Number must be between 1 and 65535." |  |
| Search Base | string | 4096 characters max.  Cannot be empty. |  |  | The DN of where LDAP searches begin.  Can be set to the special value “AD\_ROOT\_DOMAIN\_NAMING\_CONTEXT”. This value flag can be used by Active Directory users to force the software to automatically determine the root domain DN. |
| User ID Filter | string | 4096 characters max.  Must contain {USERNAME} placeholder. | (sAMAccountName={USERNAME}) | If does not contain {USERNAME} placeholder:  "Username attribute must contain the {USERNAME} placeholder." | This LDAP filter is used to map the user's username to the LDAP directory Distinguished Name (DN). |
| Group Filter | String | 4096 characters max. | (|(objectClass=organizationalUnit)(objectClass=container)(objectClass=group)(objectClass=groupOfNames)(objectClass=groupOfUniqueNames)(objectClass=posixGroup)) |  | This LDAP filter is used to search for groups. |
| Group Membership Attribute | string | 32 characters max.  Cannot be empty. | memberOf |  | The LDAP attribute name for attributes, on an LDAP entry, which have values of DNs mapping to parent groups of the entry. |
| Bind DN | string | 4096 characters max. |  |  | The DN of a service account authorized to search the LDAP directory.  If empty, an anonymous bind will be attempted. |
| Password | string | 128 characters max.  Must be empty if Bind DN is empty. |  | If is not empty and Bind DN is empty:  “Password must be empty for an anonymous bind.”  If is empty and Bind DN is not empty:  “Unauthenticated Authentication is not supported. A password must be specified when supplying a Bind DN.” | Password used for the Bind DN, when searching the LDAP directory. |