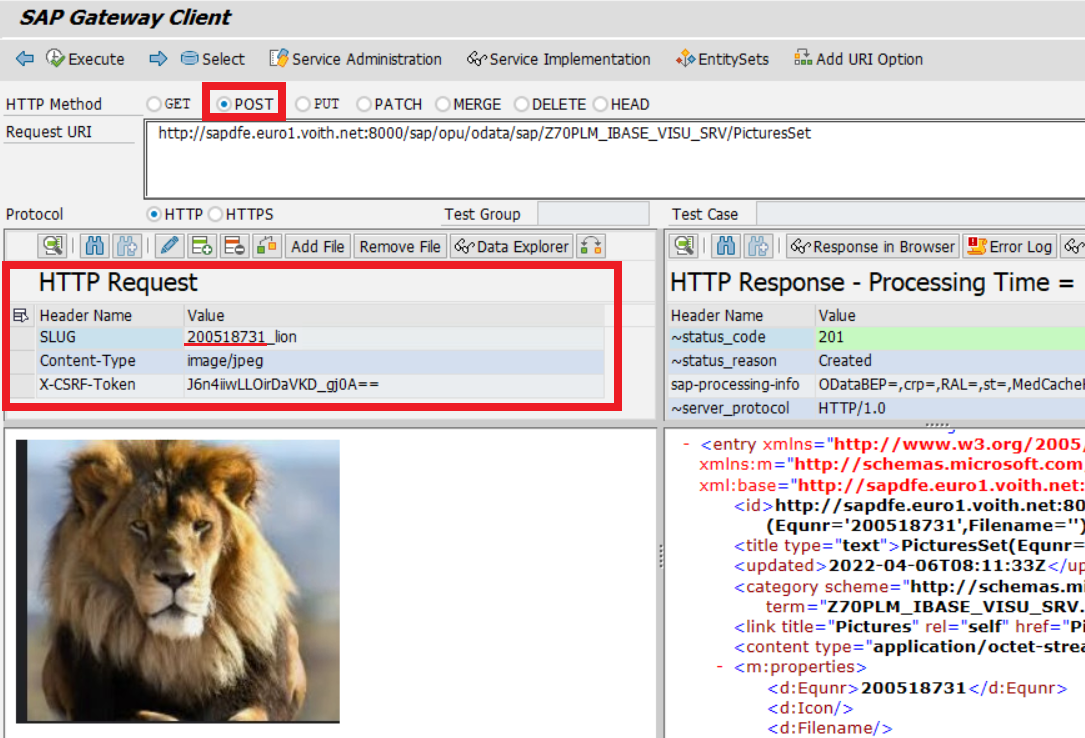
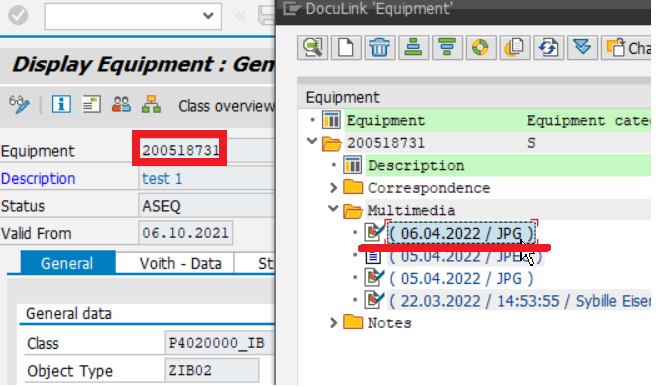
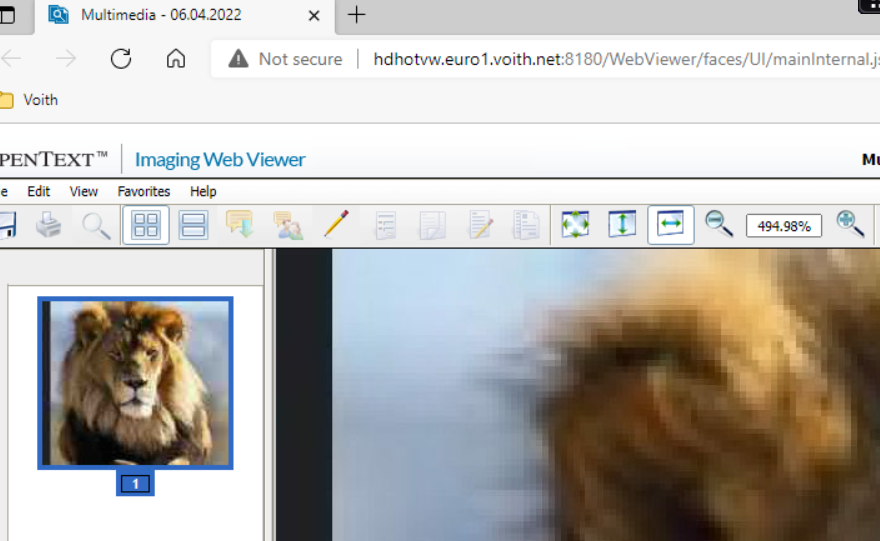
Creating an IMAGE:

At the HEADER, property SLUG, please send always the equipment number concatenated with the filename and separated by ‘\_’. Example:

**200518731**\_lion.jpg

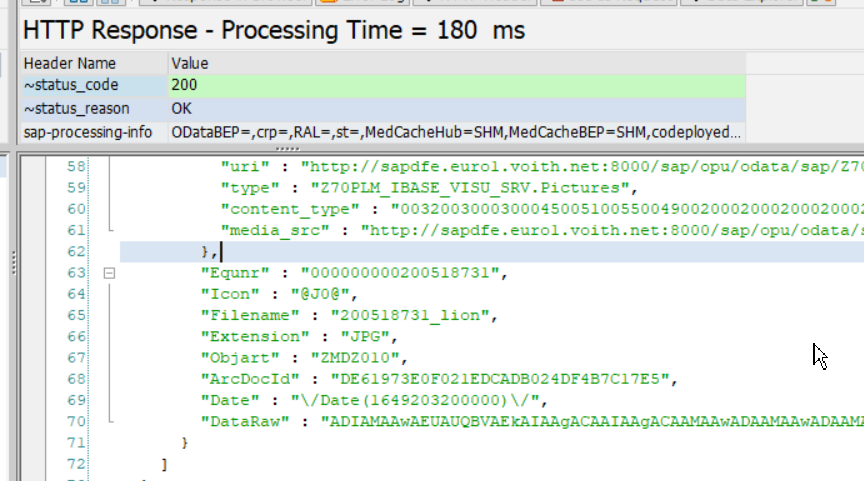






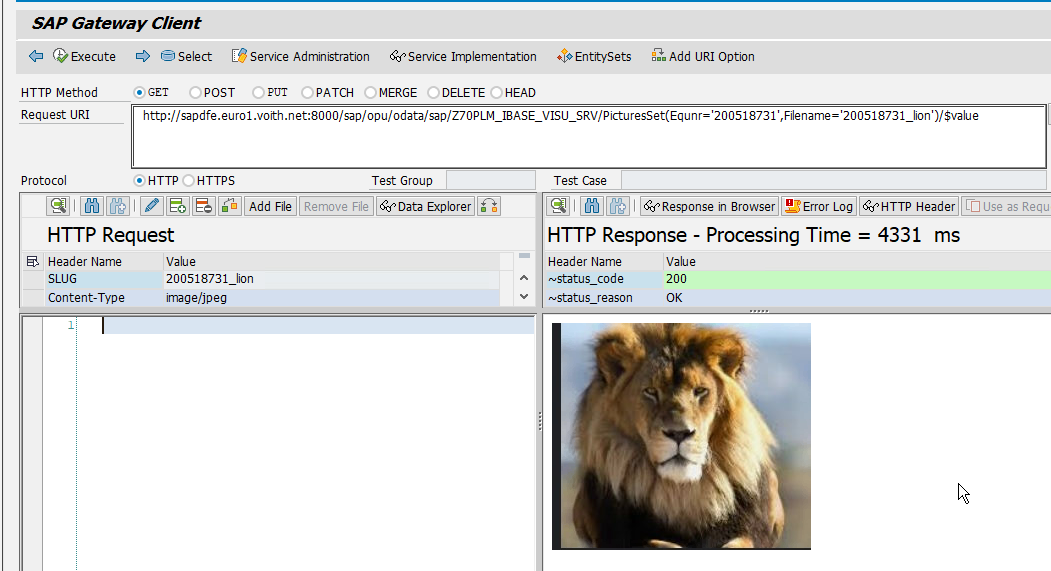
Get Files:

http://sapdfe.euro1.voith.net:8000/sap/opu/odata/sap/Z70PLM\_IBASE\_VISU\_SRV/PicturesSet?$filter=Equnr eq '200518731'&$format=json



Get Specific Image:

<http://sapdfe.euro1.voith.net:8000/sap/opu/odata/sap/Z70PLM_IBASE_VISU_SRV/PicturesSet(Equnr='200518731',Filename='200518731_lion')/$value>



MEDIA API:

METHOD /iwbep/if\_mgw\_appl\_srv\_runtime~create\_stream.  
  
 DATA: o\_ref TYPE REF TO data,  
 lv\_equi TYPE zcl70plm\_ibase\_visu\_mpc=>ts\_pictures-equnr,  
 lv\_msgty TYPE symsgty,  
 lv\_msgid TYPE symsgid,  
 lv\_msgno TYPE symsgno.  
 *"Get RFC destination*  
 DATA(lo\_dp\_facade) = /iwbep/if\_mgw\_conv\_srv\_runtime~get\_dp\_facade( ).  
 DATA(lv\_destination) = /iwbep/cl\_sb\_gen\_dpc\_rt\_util=>get\_rfc\_destination( io\_dp\_facade = lo\_dp\_facade ).  
  
 CHECK lv\_destination IS NOT INITIAL AND lv\_destination NE 'NONE'.  
  
 FIND FIRST OCCURRENCE OF '\_' IN iv\_slug MATCH OFFSET DATA(lv\_offset).  
  
 lv\_equi = |{ iv\_slug(lv\_offset) ALPHA = IN }|.  
  
 CALL FUNCTION 'Z\_20PLM\_IBASE\_VISU\_CREATE\_PIC' DESTINATION lv\_destination  
 EXPORTING  
 iv\_equi = lv\_equi  
 iv\_filename = iv\_slug  
 iv\_mimetype = is\_media\_resource-mime\_type  
 iv\_value = is\_media\_resource-value  
 EXCEPTIONS  
 wrong\_extension = 1  
 nothing\_found = 2  
 binary\_tab = 3  
 error\_archiv = 4  
 error\_communicationtable = 5  
 error\_kernel = 6  
 error\_connectiontable = 7  
 system\_failure = 1000  
 OTHERS = 1002.  
  
 IF sy-subrc = 0.  
  
 CREATE DATA o\_ref TYPE zcl70plm\_ibase\_visu\_mpc=>ts\_pictures.  
  
 ASSIGN o\_ref->\* TO FIELD-SYMBOL(<fs\_oref>).  
 CHECK <fs\_oref> IS ASSIGNED.  
 ASSIGN COMPONENT 'EQUNR' OF STRUCTURE <fs\_oref> TO FIELD-SYMBOL(<fs\_data>).  
 IF <fs\_data> IS ASSIGNED.  
 <fs\_data> = lv\_equi.  
 ENDIF.  
  
 ASSIGN COMPONENT 'DATE' OF STRUCTURE <fs\_oref> TO <fs\_data>.  
 IF <fs\_data> IS ASSIGNED.  
 <fs\_data> = sy-datum.  
 ENDIF.  
  
 ASSIGN COMPONENT 'FILENAME' OF STRUCTURE <fs\_oref> TO <fs\_data>.  
 IF <fs\_data> IS ASSIGNED.  
 <fs\_data> = iv\_slug.  
 ENDIF.  
  
 er\_entity = o\_ref.  
  
 ELSE.  
  
 lv\_msgty = 'E'.  
 lv\_msgid = 'Z20PLM\_IBASE\_VISU'.  
  
 CASE sy-subrc.  
 WHEN 1.  
 lv\_msgno = 002. *"Error during uploading*  
 WHEN OTHERS.  
 lv\_msgno = 001. *"Unacceptable extension*  
 ENDCASE.  
  
 mo\_context->get\_message\_container( )->add\_message(  
 EXPORTING  
 iv\_msg\_type = lv\_msgty *" Message Type*  
 iv\_msg\_id = lv\_msgid *" Message Class*  
 iv\_msg\_number = lv\_msgno *" Message Number*  
 ).  
  
 RAISE EXCEPTION TYPE /iwbep/cx\_mgw\_busi\_exception  
 EXPORTING  
 message\_container = mo\_context->get\_message\_container( ).  
  
 ENDIF.  
  
ENDMETHOD.

METHOD /iwbep/if\_mgw\_appl\_srv\_runtime~get\_stream.  
  
 DATA : ls\_stream TYPE ty\_s\_media\_resource,  
 lt\_files TYPE TABLE OF z70plms\_ibase\_visu\_files\_s,  
 lv\_equnr TYPE c LENGTH 18,  
 lv\_filename TYPE string.  
  
 READ TABLE it\_key\_tab ASSIGNING FIELD-SYMBOL(<fs\_key>) WITH KEY name = 'Equnr'.  
 CHECK sy-subrc = 0.  
  
 lv\_equnr = <fs\_key>-value.  
 READ TABLE it\_key\_tab ASSIGNING <fs\_key> WITH KEY name = 'Filename'.  
 CHECK sy-subrc = 0.  
  
 lv\_filename = <fs\_key>-value.  
 *"Get RFC destination*  
 DATA(lo\_dp\_facade) = /iwbep/if\_mgw\_conv\_srv\_runtime~get\_dp\_facade( ).  
 DATA(lv\_destination) = /iwbep/cl\_sb\_gen\_dpc\_rt\_util=>get\_rfc\_destination( io\_dp\_facade = lo\_dp\_facade ).  
  
 CHECK lv\_destination IS NOT INITIAL AND lv\_destination NE 'NONE'.  
  
 CALL FUNCTION 'Z\_20PLM\_IBASE\_VISU\_PICTURES' DESTINATION lv\_destination  
 EXPORTING  
 iv\_equnr = lv\_equnr  
 IMPORTING  
 et\_files = lt\_files  
 EXCEPTIONS  
 system\_failure = 1000  
 OTHERS = 1002.  
  
 CHECK sy-subrc = 0.  
  
 READ TABLE lt\_files ASSIGNING FIELD-SYMBOL(<fs\_file>) WITH KEY filename = lv\_filename.  
 CHECK sy-subrc = 0.  
  
 ls\_stream-value = <fs\_file>-data\_raw.  
  
 CASE <fs\_file>-extension.  
 WHEN 'BMP'.  
 ls\_stream-mime\_type = 'image/bmp'.  
 WHEN 'PNG'.  
 ls\_stream-mime\_type = 'image/png'.  
 WHEN 'JPG'.  
 ls\_stream-mime\_type = 'image/jpeg'.  
 WHEN 'JPEG'.  
 ls\_stream-mime\_type = 'image/jpeg'.  
 WHEN 'HEIC'.  
 ls\_stream-mime\_type = 'image/heic'.  
 WHEN OTHERS.  
 ENDCASE.

METHOD /iwbep/if\_mgw\_appl\_srv\_runtime~get\_stream.  
  
 DATA : ls\_stream TYPE ty\_s\_media\_resource,  
 lt\_files TYPE TABLE OF z70plms\_ibase\_visu\_files\_s,  
 lv\_equnr TYPE c LENGTH 18,  
 lv\_filename TYPE string.  
  
 READ TABLE it\_key\_tab ASSIGNING FIELD-SYMBOL(<fs\_key>) WITH KEY name = 'Equnr'.  
 CHECK sy-subrc = 0.  
  
 lv\_equnr = <fs\_key>-value.  
 READ TABLE it\_key\_tab ASSIGNING <fs\_key> WITH KEY name = 'Filename'.  
 CHECK sy-subrc = 0.  
  
 lv\_filename = <fs\_key>-value.  
 *"Get RFC destination*  
 DATA(lo\_dp\_facade) = /iwbep/if\_mgw\_conv\_srv\_runtime~get\_dp\_facade( ).  
 DATA(lv\_destination) = /iwbep/cl\_sb\_gen\_dpc\_rt\_util=>get\_rfc\_destination( io\_dp\_facade = lo\_dp\_facade ).  
  
 CHECK lv\_destination IS NOT INITIAL AND lv\_destination NE 'NONE'.  
  
 CALL FUNCTION 'Z\_20PLM\_IBASE\_VISU\_PICTURES' DESTINATION lv\_destination  
 EXPORTING  
 iv\_equnr = lv\_equnr  
 IMPORTING  
 et\_files = lt\_files  
 EXCEPTIONS  
 system\_failure = 1000  
 OTHERS = 1002.  
  
 CHECK sy-subrc = 0.  
  
 READ TABLE lt\_files ASSIGNING FIELD-SYMBOL(<fs\_file>) WITH KEY filename = lv\_filename.  
 CHECK sy-subrc = 0.  
  
 ls\_stream-value = <fs\_file>-data\_raw.  
  
 CASE <fs\_file>-extension.  
 WHEN 'BMP'.  
 ls\_stream-mime\_type = 'image/bmp'.  
 WHEN 'PNG'.  
 ls\_stream-mime\_type = 'image/png'.  
 WHEN 'JPG'.  
 ls\_stream-mime\_type = 'image/jpeg'.  
 WHEN 'JPEG'.  
 ls\_stream-mime\_type = 'image/jpeg'.  
 WHEN 'HEIC'.  
 ls\_stream-mime\_type = 'image/heic'.  
 WHEN OTHERS.  
 ENDCASE.  
  
 METHOD /iwbep/if\_mgw\_appl\_srv\_runtime~get\_stream.  
  
 DATA : ls\_stream TYPE ty\_s\_media\_resource,  
 lt\_files TYPE TABLE OF z70plms\_ibase\_visu\_files\_s,  
 lv\_equnr TYPE c LENGTH 18,  
 lv\_filename TYPE string.  
  
 READ TABLE it\_key\_tab ASSIGNING FIELD-SYMBOL(<fs\_key>) WITH KEY name = 'Equnr'.  
 CHECK sy-subrc = 0.  
  
 lv\_equnr = <fs\_key>-value.  
 READ TABLE it\_key\_tab ASSIGNING <fs\_key> WITH KEY name = 'Filename'.  
 CHECK sy-subrc = 0.  
  
 lv\_filename = <fs\_key>-value.  
 *"Get RFC destination*  
 DATA(lo\_dp\_facade) = /iwbep/if\_mgw\_conv\_srv\_runtime~get\_dp\_facade( ).  
 DATA(lv\_destination) = /iwbep/cl\_sb\_gen\_dpc\_rt\_util=>get\_rfc\_destination( io\_dp\_facade = lo\_dp\_facade ).  
  
 CHECK lv\_destination IS NOT INITIAL AND lv\_destination NE 'NONE'.  
  
 CALL FUNCTION 'Z\_20PLM\_IBASE\_VISU\_PICTURES' DESTINATION lv\_destination  
 EXPORTING  
 iv\_equnr = lv\_equnr  
 IMPORTING  
 et\_files = lt\_files  
 EXCEPTIONS  
 system\_failure = 1000  
 OTHERS = 1002.  
  
 CHECK sy-subrc = 0.  
  
 READ TABLE lt\_files ASSIGNING FIELD-SYMBOL(<fs\_file>) WITH KEY filename = lv\_filename.  
 CHECK sy-subrc = 0.  
  
 ls\_stream-value = <fs\_file>-data\_raw.  
  
 CASE <fs\_file>-extension.  
 WHEN 'BMP'.  
 ls\_stream-mime\_type = 'image/bmp'.  
 WHEN 'PNG'.  
 ls\_stream-mime\_type = 'image/png'.  
 WHEN 'JPG'.  
 ls\_stream-mime\_type = 'image/jpeg'.  
 WHEN 'JPEG'.  
 ls\_stream-mime\_type = 'image/jpeg'.  
 WHEN 'HEIC'.  
 ls\_stream-mime\_type = 'image/heic'.  
 WHEN OTHERS.  
 ENDCASE.  
  
 DATA ls\_lheader TYPE ihttpnvp.  
 ls\_lheader-name = 'Content-Disposition'.  
 ls\_lheader-value = 'outline; filename="' && lv\_filename && '"'.  
 set\_header( is\_header = ls\_lheader ).  
  
 copy\_data\_to\_ref( EXPORTING is\_data = ls\_stream CHANGING cr\_data = er\_stream ).  
  
ENDMETHOD.

FUNCTION z\_20plm\_ibase\_visu\_create\_pic.  
*\*"----------------------------------------------------------------------*  
*\*"\*"Local Interface:*  
*\*" IMPORTING*  
*\*" VALUE(IV\_EQUI) TYPE EQUNR*  
*\*" VALUE(IV\_FILENAME) TYPE STRING*  
*\*" VALUE(IV\_MIMETYPE) TYPE STRING*  
*\*" VALUE(IV\_VALUE) TYPE XSTRING*  
*\*" EXCEPTIONS*  
*\*" WRONG\_EXTENSION*  
*\*" NOTHING\_FOUND*  
*\*" BINARY\_TAB*  
*\*" ERROR\_ARCHIV*  
*\*" ERROR\_COMMUNICATIONTABLE*  
*\*" ERROR\_KERNEL*  
*\*" ERROR\_CONNECTIONTABLE*  
*\*"----------------------------------------------------------------------*  
*\*---------------------------------------------------------------------*  
*\* Function module: Z\_20PLM\_IBASE\_VISU\_CREATE\_PIC*  
*\* Title: Save Picture related to equipment*  
*\* Autor: Igor Muntoreanu*  
*\* Customer: Oliver Baunholzer DSG*  
*\* Created: 2022-04*  
*\**  
*\* Short description: Save Picture related to equipment*  
*\*---------------------------------------------------------------------*  
*\* Changes: Description (newest on top)*  
*\*---------------------------------------------------------------------*  
*\* LNr / JJJJ-MM-TT / Name / Project-Nr*  
*\*---------------------------------------------------------------------*  
  
 DATA: gv\_equi TYPE equnr,  
 gv\_len TYPE i,  
 gv\_arc\_doc\_id TYPE saeardoid,  
 gv\_archiv\_id TYPE saearchivi,  
 gt\_content1024 TYPE TABLE OF tbl1024, *"RAW 1024 format*  
 gv\_length TYPE sapb-length,  
 gv\_objid TYPE sapb-sapobjid,  
 gv\_file\_name TYPE toaat-filename,  
 gs\_j\_8a3t0013 TYPE j\_8a3t0013.  
  
 SELECT SINGLE \*  
 FROM toadd  
 INTO @DATA(ls\_toadd)  
 WHERE mimetype = @iv\_mimetype.  
 IF sy-subrc <> 0. *"Wrong/Unacceptable extension*  
 RAISE wrong\_extension.  
 ENDIF.  
  
 gv\_equi = |{ iv\_equi ALPHA = IN }|.  
  
 CALL FUNCTION 'ARCHIV\_CONNECTDEFINITION\_GET'  
 EXPORTING  
 objecttype = 'EQUI'  
 documenttype = 'ZMDZ010'  
 client = sy-mandt  
 IMPORTING  
 archivid = gv\_archiv\_id  
 EXCEPTIONS  
 nothing\_found = 1  
 OTHERS = 2.  
  
 IF sy-subrc <> 0.  
 RAISE nothing\_found.  
 ENDIF.  
  
 CALL FUNCTION 'SCMS\_XSTRING\_TO\_BINARY'  
 EXPORTING  
 buffer = iv\_value  
 IMPORTING  
 output\_length = gv\_len  
 TABLES  
 binary\_tab = gt\_content1024.  
  
 IF gt\_content1024 IS INITIAL.  
 RAISE binary\_tab.  
 ENDIF.  
  
 gv\_length = gv\_len.  
  
 CALL FUNCTION 'ARCHIVOBJECT\_CREATE\_TABLE'  
 EXPORTING  
 archiv\_id = gv\_archiv\_id  
 document\_type = ls\_toadd-doc\_type *"extension*  
 length = gv\_length  
 IMPORTING  
 archiv\_doc\_id = gv\_arc\_doc\_id  
 TABLES  
 binarchivobject = gt\_content1024  
 EXCEPTIONS  
 error\_archiv = 1  
 error\_communicationtable = 2  
 error\_kernel = 3  
 OTHERS = 4.  
  
 CASE sy-subrc.  
 WHEN 1.  
 RAISE error\_archiv.  
 WHEN 2.  
 RAISE error\_communicationtable.  
 WHEN 3.  
 RAISE error\_kernel.  
 WHEN OTHERS.  
 ENDCASE.  
  
 gv\_file\_name = iv\_filename.  
 gv\_objid = gv\_equi.  
 CONDENSE gv\_objid.  
  
 CALL FUNCTION 'ARCHIV\_CONNECTION\_INSERT'  
 EXPORTING  
 archiv\_id = gv\_archiv\_id  
 arc\_doc\_id = gv\_arc\_doc\_id  
 ar\_object = 'ZMDZ010'  
 object\_id = gv\_objid  
 sap\_object = 'EQUI'  
 doc\_type = ls\_toadd-doc\_type *"extension*  
 filename = gv\_file\_name  
 descr = 'Uploaded from the IBase App'  
 creator = sy-uname  
 EXCEPTIONS  
 error\_connectiontable = 1  
 OTHERS = 2.  
  
 IF sy-subrc <> 0.  
 RAISE error\_connectiontable.  
 ENDIF.  
  
*\*\* -------------------------------------------------------------*  
*\*\* DocuLink-ODMA-Attribute fortschreiben. /*  
*\*\* Necessary so the values are going to be displayed at the DocuLink Icon in IE03*  
*\*\* -------------------------------------------------------------*  
 gs\_j\_8a3t0013-archiv\_id = gv\_archiv\_id.  
 gs\_j\_8a3t0013-arc\_doc\_id = gv\_arc\_doc\_id.  
 gs\_j\_8a3t0013-attribute = '%FILENAME\_ONLY'.  
 gs\_j\_8a3t0013-value = gv\_file\_name.  
 INSERT INTO j\_8a3t0013 VALUES gs\_j\_8a3t0013.  
  
 gs\_j\_8a3t0013-attribute = '%USERNAME'.  
 gs\_j\_8a3t0013-value = sy-uname.  
 INSERT INTO j\_8a3t0013 VALUES gs\_j\_8a3t0013.  
  
 gs\_j\_8a3t0013-attribute = '%ARC\_TIME'.  
 gs\_j\_8a3t0013-value = sy-uzeit.  
 INSERT INTO j\_8a3t0013 VALUES gs\_j\_8a3t0013.  
  
 COMMIT WORK AND WAIT.  
  
ENDFUNCTION.

FUNCTION z\_20plm\_ibase\_visu\_pictures.  
*\*"----------------------------------------------------------------------*  
*\*"\*"Local Interface:*  
*\*" IMPORTING*  
*\*" VALUE(IV\_EQUNR) TYPE EQUNR*  
*\*" EXPORTING*  
*\*" VALUE(ET\_FILES) TYPE Z20PLMS\_IBASE\_VISU\_FILES\_T*  
*\*"----------------------------------------------------------------------*  
*\*---------------------------------------------------------------------*  
*\* Function module: Z\_20PLM\_IBASE\_VISU\_PICTURES*  
*\* Title: Get Pictures related to equipment*  
*\* Autor: Igor Muntoreanu*  
*\* Customer: Oliver Baunholzer DSG*  
*\* Created: 2022-04*  
*\**  
*\* Short description: Get Pictures related to equipment*  
*\*---------------------------------------------------------------------*  
*\* Changes: Description (newest on top)*  
*\*---------------------------------------------------------------------*  
*\* LNr / JJJJ-MM-TT / Name / Project-Nr*  
*\*---------------------------------------------------------------------*  
  
 DATA: lv\_equnr TYPE equnr,  
 lr\_ext TYPE RANGE OF w3fileext,  
 ls\_ext LIKE LINE OF lr\_ext.  
  
 DATA: lv\_archiv\_id TYPE toaar-archiv\_id,  
 lv\_document\_type TYPE toadd-doc\_type,  
 lv\_archiv\_doc\_id TYPE sapb-sapadokid,  
 lv\_binlength TYPE sapb-length,  
 lv\_length TYPE i,  
 lv\_file TYPE xstring,  
 lt\_binarchivobject TYPE TABLE OF tbl1024.  
  
 DEFINE add\_extension.  
 ls\_ext-option = 'EQ'.  
 ls\_ext-sign = 'I'.  
 ls\_ext-low = &1.  
 INSERT ls\_ext INTO TABLE lr\_ext.  
 END-OF-DEFINITION.  
  
 lv\_equnr = |{ iv\_equnr ALPHA = IN }|.  
 DATA(lt\_docs) = zcl20plm\_ibase\_visu\_helper=>read\_arch\_documents( iv\_equnr = lv\_equnr ).  
  
 LOOP AT lt\_docs ASSIGNING FIELD-SYMBOL(<fs\_docs>).  
  
 lv\_archiv\_doc\_id = <fs\_docs>-arc\_doc\_id.  
  
 CALL FUNCTION 'ARCHIVOBJECT\_GET\_TABLE'  
 EXPORTING  
 archiv\_id = 'H6'  
 document\_type = 'ZMDZ010'  
 archiv\_doc\_id = lv\_archiv\_doc\_id  
 all\_components = space  
 signature = space  
 compid = space  
 IMPORTING  
 binlength = lv\_binlength  
 TABLES  
 binarchivobject = lt\_binarchivobject  
 EXCEPTIONS  
 error\_archiv = 1  
 error\_communicationtable = 2  
 error\_kernel = 3  
 OTHERS = 4.  
 IF sy-subrc EQ 0.  
  
 lv\_length = lv\_binlength.  
  
 CALL FUNCTION 'SCMS\_BINARY\_TO\_XSTRING'  
 EXPORTING  
 input\_length = lv\_length  
 IMPORTING  
 buffer = lv\_file  
 TABLES  
 binary\_tab = lt\_binarchivobject  
 EXCEPTIONS  
 failed = 1  
 OTHERS = 2.  
 IF sy-subrc EQ 0.  
 <fs\_docs>-data\_raw = lv\_file.  
 ENDIF.  
 ENDIF.  
 ENDLOOP.  
  
 et\_files = CORRESPONDING #( lt\_docs ).  
  
 add\_extension: 'JPG'.  
 add\_extension: 'JPEG'.  
 add\_extension: 'PNG'.  
 add\_extension: 'BMP'.  
 add\_extension: 'GIF'.  
 add\_extension: 'TIFF'.  
 add\_extension: 'HEIC'.  
  
 DELETE et\_files WHERE extension NOT IN lr\_ext.  
  
ENDFUNCTION.