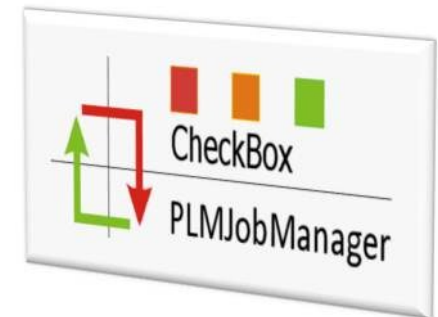
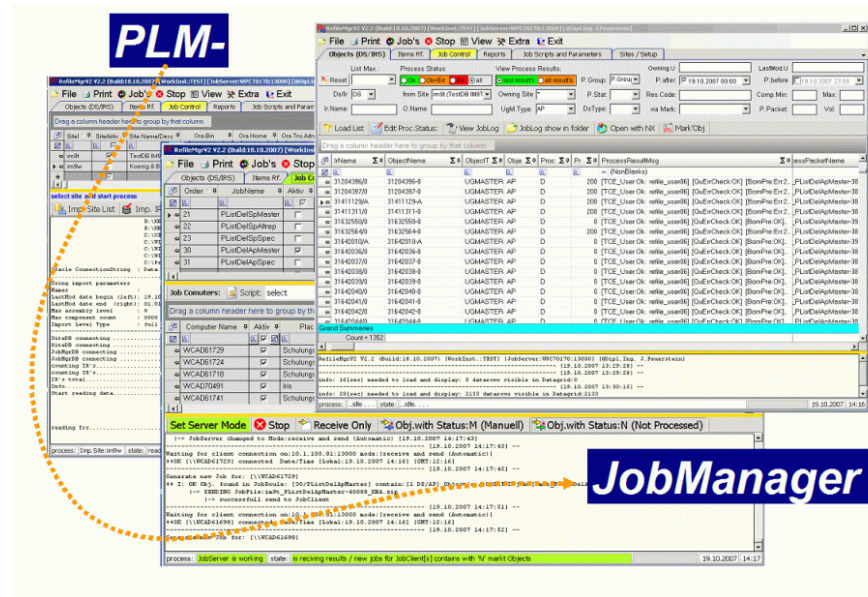




Titel



CheckBox

mit dem PLMJobManager

Details der Daten Analyse

Erstellt von: Josef Feuerstein



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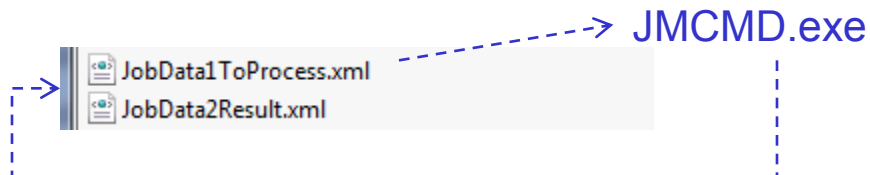
CheckBox process description

How the CheckBox Data are generated

- CB1 → Extract Data with NX version 1 → CheckBox_CustomStart.cmd + Param
- CB2 → Extract Data with NX version 2 → CheckBox_CustomStart.cmd + Param
- CB3 → Compare extracted CB1 – CB2 Data

Hints:

- Thru CB1 / CB2 Processes CB-Data must be in this way extracted that the extracted CB-Data are comparable Check settings for customisation
 - TC – Data
 - NX: Load Option s
 - NX:/TC Environment's
 - NX: Customer defaultes → Patternfiles f
 -



JobManager Settings

The screenshot illustrates the configuration of JobManager settings. It includes three main components:

- File Explorer (Top Right):** Shows the directory structure for JobManager settings, including folders like '10-JobScripts', 'AppUid', 'Archiv', 'CheckBox', 'Bin', 'Bin.Template', 'ClientScripts', 'ClientScripts.Archiv', 'Documentation.Application', 'Documentation.Custom', 'ExampleData', 'CheckBox.Archiv', 'GenericExample', 'InWork', and 'NXDataProcessing'.
- Script Editor (Bottom Right):** Displays the content of 'CheckBox_CustomStart.cmd'. The script defines the 'CheckBox Action' and sets various parameters for the 'NxCheckBox' process. Key lines include:


```
rem --- defines CheckBox Action: "NxCB_Extract" / "ResultGen"
SET CB_Action=NxCB_Extract

rem --- define if NX is Running "TC" or in "NATIVE" Environ
SET NxCB_UsingEnviron=TC

rem --- defines Use of NXver
SET CB_Ver1=#NX4
SET CB_Ver2=#NX80
SET CB_VerUse=VER1
SET NxCB_UseNxVer=#NX4

rem --- CheckBox Param's (-StructureSync,-UpdateAllViews,-UpdateAllFeatures)
set NxCB_program_exe_NE=NxCheckBox_32_bit_Nx4-7_V2.0.0.2.exe
set NxCheckBox_JobPara=-DetailOption=25,26
set NxCheckBox_JobPara=%NxCheckBox_JobPara% -UpdateAllViews
set NxCheckBox_JobPara=%NxCheckBox_JobPara% -UpdateAllFeatures
set JobParameter=%NxCheckBox_JobPara%

rem --- Load Options steuern
rem set UGII_LOAD_OPTIONS_NE=load_options_LoadFull.def
```
- Job Scripts and Parameters Table (Bottom Left):** Lists the configured job scripts and their parameters. The table has columns for 'Script.Na', 'JobScriptDescription', 'JC.Script(cmd)', and 'JC.Script(cmd).ParamExt'.

Script.Na	JobScriptDescription	JC.Script(cmd)	JC.Script(cmd).ParamExt
cb	CheckBox Step1 Get NX4	CheckBox\ClientScripts\CheckBox_CustomStart.Cmd	
CB_S1Nx4	CheckBox Step1 Get NX4	CheckBox\ClientScripts\CheckBox_CustomStart.Cmd	
CB_S1Nx75	CheckBox Step1 Get NX75 Dat	CheckBox\ClientScripts\CheckBox_CustomStart.Cmd	
CB_S2Nx80	CheckBox Step2 Get NX80 Dat	CheckBox\ClientScripts\CheckBox_CustomStart.Cmd	
CB_S3GenR	CheckBox Step3 Gen Result D	CheckBox\ClientScripts\CheckBox_CustomStart.Cmd	

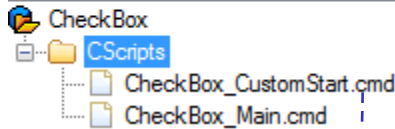
Annotations in the image highlight specific parts of the configuration:

- 1:** Points to the 'CheckBox_CustomStart.cmd' file in the 'ClientScripts' folder and the corresponding entry in the 'Job Scripts and Parameters' table.
- 2:** Points to the 'SET NxCB_UseNxVer=#NX4' line in the script editor, which is used to start the parameter for extraction.

Legend:

- Start Script (1)
- Start Parameter for Extraction (2)

JobManager CheckBox Script



```

168 rem #env: 10.10.2012/J.Fes
169 rem #ToDo: Setup RootPP_LL defines length off partical path of
170 rem CheckBox Path ..\12-Data\JobMgrData\%SiteID%\%ItemID%\%RevID%
171 REM set JobMgrDataOrg_BaseNameSchema_Custom=RootPP_LL%10
172 set JobMgrDataOrg_BaseNameSchema_Custom=
173 rem #ToDo: Define JobMgrDataOrg_Root_DP Custom or use default
174 set JobMgrDataOrg_Root_DP_Custom=%12-Data\JobMgrData
175
176 rem -- #Step: verzweigen in die jeweilige version des CB Vorgangs
177 if /I "%CB_Action%" equ "NxCB_Extract" (
178   if /I "%CB_VerUse%" equ "VER1" goto :CB_VerUse_Ver1
179   if /I "%CB_VerUse%" equ "VER2" goto :CB_VerUse_Ver2
180 )

```

```

194 :CB_VerUse_Ver1
195 setlocal
196 REM #Doc: Get CbData for Nx Version cur in use Example: Nx2..NX80
197 set ToPromptCmd=Unkown please Check settings in:[%0]
198
199 if /I "%JobMgr_Debug%" neq "ON" goto :JumbOver
200 Echo #Debug:
201 Echo Start executing: [CB_VerUse_Ver1]
202 pause
203 :JumbOver
204
205 REM #ToDo: set Custom Prompt for CB Data Extract
206 if /I "%ToSiteId%" neq "CustomSideNameCur" goto :JumbOver1
207 set ToPromptCmd=%UG_SHR_DIR%\ugnx4\env\start_nx4.bat
208 set ToPromptCmdOpt=de iman_prompt CustomSideNameCur v910
209 :JumbOver1
210
211 if /I "%JobMgr_Debug%" neq "ON" goto :JumbOver_Debug
212 Echo #Debug:..... before executing:
213 Echo ToPromptCmd: [%ToPromptCmd%]
214 Echo ToPromptCmdOpt: [%ToPromptCmdOpt%]
215 pause
216 :JumbOver_Debug
217
218 if not exist "%ToPromptCmd%" goto :ToPromptCmdError
219 call :Echo "executing ToPrompt:[%ToPromptCmd% %ToPromptCmdOpt%]"
220 call "%ToPromptCmd%" %ToPromptCmdOpt%
221
222 rem -- #Step: start CheckBox Main to extract Data
223 call "%CmdCurRoot_DP%\CheckBox_Main.cmd"
224 endlocal
225 goto :MyEnd

```

2.. CheckBox_Main.cmd

```

78 rem -- #Step: Verzweigen in die erforderliche UnterRoutine CB_Action -----
79 if /I "%CB_Action%" neq "NxCB_Extract" goto :NxCB_Extract_StepOver
80 call :NxCB_Extract_UsingEnvironTC
81 :NxCB_Extract_StepOver

```

rem -- #Step: extrahieren + auflisten der via CB zu verarbeitenden Objecte

```

188 rem -- #Step: Cb NxCB_program_exe_DPNE command erstellen
189 if defined NxCBJobBox_JobPara set JobParameter=%NxCBJobBox_JobPara% -ExtractCGM_toDir="%NxCB_CgmData_DP%"

```

```

224 rem -- #Step: Move Results into Archiv
225 :CBMoveCBFilesToCBArchiv

```

```

243 rem 10.10.2012/J.Fes new
244 if defined JobMgrDataOrg_BaseNameSchema_Custom set toRun=%toRun% -JobMgrDataOrg_BaseNameSchema "%JobMgrDataOrg_BaseNameSchema_Custom%"

```

Options parameter view details in: NxCBCheckBox_64_bit_Nx85_V2.0.0.2_Help.txt

```

J.C.Script(cmd).ParamExt

rem -- defines CheckBox Action: "NxCB_Extract" / "ResultGen"
SET CB_Action=NxCB_Extract

rem -- define if NX is Running "TC" or in "NATIVE" Environ
SET NxCB_UsingEnviron=TC

rem -- defines Use of NXver
SET CB_Ver1=#NX4
SET CB_Ver2=#NX80
SET CB_VerUse=VER1
SET NxCB_UseNXVer=#NX4

rem -- CheckBox Param's (-StrukturSync,-UpdateAllViews,-UpdateAllFeatures)
set NxCB_program_exe_NE=NxCBCheckBox_32_bit_Nx4-7_V2.0.0.2.exe
set NxCBJobBox_JobPara=DetailOption=25,26
set NxCBJobBox_JobPara=%NxCBJobBox_JobPara% -UpdateAllViews
set NxCBJobBox_JobPara=%NxCBJobBox_JobPara% -UpdateAllFeatures
set JobParameter=%NxCBJobBox_JobPara%

rem -- Load Options steuern
rem set UGII_LOAD_OPTIONS_NE=load_options_LoadFull.def

```

Help: \JobManagerV2\03-BinPublic.ClientServer\JobManagerCmdTools_Help.txt



Extract Data with NX version 1 / version 2

1 Process Step is to extract Data from NX Parts

- Step: Start Extract Data
- Step: Analysing Cb

Thru

[PL:OK][UF:OK][UD:OK][PH:OK][MD:OK][AS:OK][DR:OK][EN:OK][XML:OK][CGM:NO]

[PL:OK] -> Part Load

[UF:OK] -> Update All Feature (1)

[UD:OK] -> Update All Drawings

[XML:] -> Open

[CGM:] -> Open

In dieser Folie muss Dokumentiert sein
welche Results segmente welchen
Inhalt haben. 31.01.2013

Alles in Englisch !!

```

C:\Windows\system32\cmd.exe
-part=D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-log=D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-result=D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-outdir=D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-DetailOption=25,26
-Cgm_Def_Color_Option=3
-ExtractCGM_toDir=D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-----
-outdir_____ : D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-log_____ : D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-result_____ : D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-part_____ : D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-partList_____ : |
-UpdateAllFeatures_____ : 0|
-StruktureSync_____ : 0|
-UpdateAllViews_____ : 0|
-Sheet_____ : _All_,_with_view_
-ExtractCGM_toDir_____ : D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
getting UF_init
err_status = -100
err_status = 0

Info: UFUN license for main of NxCheckBox

-----
[677] doune init program result file
[680] single_part = #D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
[721] loading part
Info: Memory Load = 37
Info: dwAvailPhys = 10473248
Info: dwAvailPageFile = 26088028
Info: dwAvailVirtual = -613736

-----
Start Check at Sat Feb 02 11:58:36 2013

[496] partname = #D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
Info: Part = D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
Info: xml_file = D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
[537] xmlfile = #D:\NxData\BgDensityTest\BgStrukEx-ET1-Check
-----
[541] do the update
[543] done the update
-----
Info: init_xml_file
Info: init_xml_file --> passed
Info: write_xml_header
Info: write_xml_header --> passed
Info: Part Header Section
Info: Part Header Section --> passed
Info: Check_Model Section
Info: Check_Model Section --> passed
Info: Check_Assembly Section
Info: Check_Assembly Section --> passed
Info: Check_Drawing Section
Info: Check_Drawing Section --> passed
Info: Check_Entities Section
Info: Check_Entities Section --> passed
Info: write_xml_end Section
Info: write_xml_end Section --> passed
-----
Finished checking at Sat Feb 02 11:58:37 2013
  
```



Daten Extraktion

Zusammenfassung der Daten:

Beim extrahieren der Daten werden CB.Log Files ausgewertet und mit den folgenden Teilergebnissen zusammengefasst.

- PL = Part load
- UF = Update all Feature
- UD = Update Drawing
- PH = Part Header
- MD = Model Data
- AS = Assembly Data
- DR = Drawing Data
- EN = Entity
- CBXml = CB.Data File (xml)
- CGM = Drawing .cgm Files



```
[677] done init program result file
[680] single_part = #D:\NxData\BgStrukNx75\BgStrukEx-Einzelteil-04.dwg
[721] loading part
Info: Memory Load = 33
Info: dwAvailPhys = 11109156
Info: dwAvailPageFile = 26648496
Info: dwAvailVirtual = -586564

=====
Start Check at Sat Feb 02 14:49:28 2013

[496] partname = #D:\NxData\BgStrukNx75\BgStrukEx-Einzelteil-04.dwg
Info: Part = D:\NxData\BgStrukNx75\BgStrukEx-Einzelteil-04.dwg
Info: xml_file = D:\NxData\BgStrukNx75\BgStrukEx-Einzelteil-04.dwg
[537] xmlfile = #D:\NxData\BgStrukNx75\BgStrukEx-Einzelteil-04.dwg

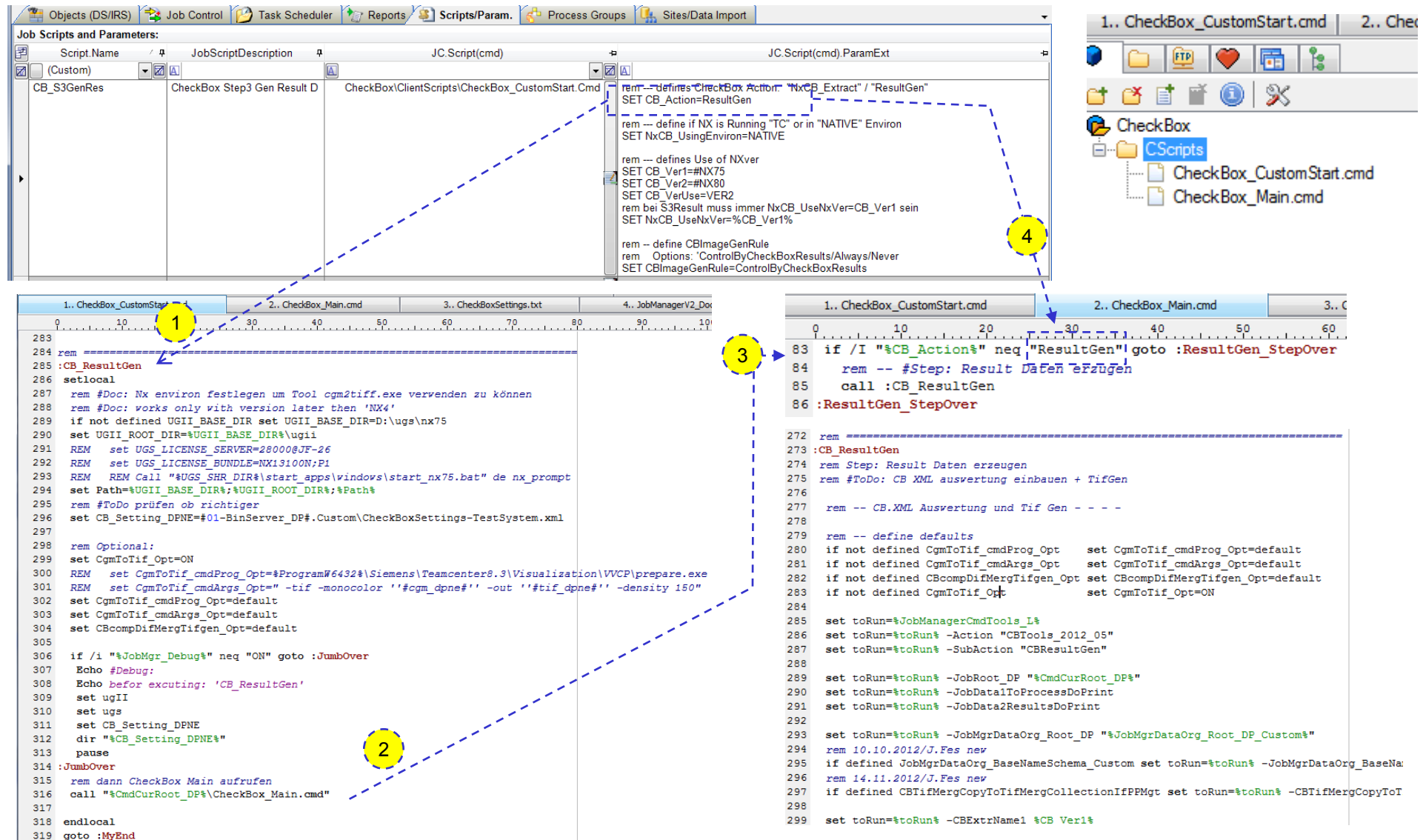
-----
[541] do the update
Update: All Features
Update: All Features ---> passed
Update: Drawing views
Update: Drawing views ---> passed
[543] done the update

-----
Info: init_xml_file
Info: init_xml_file --> passed
Info: write_xml_header
Info: write_xml_header --> passed
Info: Part Header Section
Info: Part Header Section --> passed
Info: Check_Model Section
Info: Check_Model Section --> passed
Info: Check_Assembly Section
Info: Check_Assembly Section --> passed
Info: Check_Drawing Section
Info: Check_Drawing Section --> passed
Info: Check_Entities Section
Info: Check_Entities Section --> passed
Info: write_xml_end Section
Info: write_xml_end Section --> passed

-----
CGM: Output (Sheet 1) to [D:\NxData\BgStrukNx75\BgStrukEx-Einzelteil-04.dwg]
CGM: Cgm_Def_Color_Option = UF_PLOT_BLACK_ON_WHITE
CGM: Cgm_Def_Color_Option = UF_PLOT_BLACK_ON_WHITE --> passed

-----
Finished checking at Sat Feb 02 14:49:31 2013
```

JobManager Settings



Job Scripts and Parameters:

Script Name	JobScriptDescription	JC.Script(cmd)	JC.Script(cmd).ParamExt
(Custom)			
CB_S3GenRes	CheckBox Step3 Gen Result D	CheckBox\ClientScripts\CheckBox_CustomStart.Cmd	

Script Content (Left Pane):

```

283 rem =====
284 :CB_ResultGen
285 setlocal
286 rem #Doc: Nx environ festlegen um Tool cgm2tif.exe verwenden zu können
287 rem #Doc: works only with version later then 'NX4'
288 if not defined UGII_BASE_DIR set UGII_BASE_DIR=D:\ugs\nx75
289 set UGII_ROOT_DIR=%UGII_BASE_DIR%\ugl1
290 REM set UGS_LICENSE_SERVER=28000@JF-26
291 REM set UGS_LICENSE_BUNDLE=NX13100N;P1
292 REM REM Call "%UGS_SHR_DIR%\start_apps\windows\start_nx75.bat" de nx_prompt
293 set Path=%UGII_BASE_DIR%;%UGII_ROOT_DIR%;%Path%
294 rem #ToDo prüfen ob richtiger
295 set CB_Setting_DPNE=#01-BinServer_DP#.Custom\CheckBoxSettings-TestSystem.xml
296
297 rem Optional:
298 set CgmToTif_Opt=ON
299 REM set CgmToTif_cmdProg_Opt=%ProgramW6432%\Siemens\Teamcenter8.3\Visualization\VWCP\prepare.exe
300 REM set CgmToTif_cmdArgs_Opt=" -tif -monocolor '%cgm_dpne%' -out '%tif_dpne%' -density 150"
301 set CgmToTif_cmdProg_Opt=default
302 set CgmToTif_cmdArgs_Opt=default
303 set CBoompDifMergTifgen_Opt=default
304
305 if /i "%JobMgr_Debug%" neq "ON" goto :JumbOver
306 Echo #Debug:
307 Echo befor excuting: 'CB_ResultGen'
308 set ugII
309 set ugs
310 set CB_Setting_DPNE
311 dir "%CB_Setting_DPNE%"
312 pause
313 :JumbOver
314 rem dann CheckBox Main aufrufen
315 call "%CmdCurRoot_DP%\CheckBox_Main.cmd"
316
317 endlocal
318 goto :MyEnd
  
```

Script Content (Right Pane):

```

83 if /i "%CB_Action%" neq "ResultGen" goto :ResultGen_StepOver
84 rem -- #Step: Result Daten erzeugen
85 call :CB_ResultGen
86 :ResultGen_StepOver
87
272 rem =====
273 :CB_ResultGen
274 rem Step: Result Daten erzeugen
275 rem #ToDo: CB XML auswertung einbauen + TifGen
276
277 rem -- CB.XML Auswertung und Tif Gen - - -
278
279 rem -- define defaults
280 if not defined CgmToTif_cmdProg_Opt set CgmToTif_cmdProg_Opt=default
281 if not defined CgmToTif_cmdArgs_Opt set CgmToTif_cmdArgs_Opt=default
282 if not defined CBoompDifMergTifgen_Opt set CBoompDifMergTifgen_Opt=default
283 if not defined CgmToTif_Opt set CgmToTif_Opt=ON
284
285 set toRun=%JobManagerCmdTools_L%
286 set toRun=%toRun% -Action "CBTools_2012_05"
287 set toRun=%toRun% -SubAction "CBResultGen"
288
289 set toRun=%toRun% -JobRoot_DP "%CmdCurRoot_DP%"
290 set toRun=%toRun% -JobDataToProcessDoPrint
291 set toRun=%toRun% -JobData2ResultsDoPrint
292
293 set toRun=%toRun% -JobMgrDataOrg_Root_DP "%JobMgrDataOrg_Root_DP_Custom%"
294 rem 10.10.2012/J.Fes new
295 if defined JobMgrDataOrg_BaseNameSchema_Custom set toRun=%toRun% -JobMgrDataOrg_BaseNa
296 rem 14.11.2012/J.Fes new
297 if defined CBtifMergCopyToTifMergCollectionIfPPMgt set toRun=%toRun% -CBtifMergCopyToT
298
299 set toRun=%toRun% -CBExtrNamel %CB_Ver1%
  
```







Annotations:

- 1: Points to line 284 in the left pane.
- 2: Points to line 315 in the left pane.
- 3: Points to line 83 in the right pane.
- 4: Points to line 86 in the right pane.

Daten Extraktion

Zusammenfassung der Daten:

Die so entstandenen Daten werden zu einem Gesamt Ergebnis im PLMJobManager zusammengeführt. Jedes Ergebnis eines Objektes (Part's) wird mit seinen Teilergebnissen beschrieben.

- PH = Part Header (from XML) 
- MD = Model Data (from XML) 
- AS = Assembly Data (from XML) 
- DR = Drawing Data (from XML) 
- EN = Entity Data Dim/Text (from XML) 
- PPM = Dif.tif (from Drawing compare) 

- Ist der Result Code = 0 so sind keine Abweichungen ermittelt worden

Beispiel:


[PH:OK] [MD:OK] [AS:OK] [DR:OK] [EN:OK] [PPM:OK]

- Ist der Result Code > 0 so sind Abweichungen ermittelt worden → hier muss eine Prüfung stattfinden

Beispiel:

[PH:OK] [MD:ERR:Lay;Refs;AS.Comp;DR.View] [AS:OK] [DR:OK] [EN:OK] [PPM:3078]

CB-Settings

JS V2.1194 (Build:31.01.2013) / Setup (V:\JobManager\ProgEntw\Ver02\JobManagerV2\01-BinServer.Custom\ServerSettings-TestSystem.xml)

Save+Exit Save settings restore last settings Setup database Quit (settings will not be saved)

JobServer **CheckBox**

01 PartHeader Data	
Attribute_Dif_AsErr	True
Attribute_IgnorList	String[]-Array
[0]	STATUS
[1]	OWNING_GROUP
[2]	OWNER
[3]	DB_SYNCHRONIZED_PARTS_LIST
PartHistoryCheck_AsErr	True
CliNameDif_AsWarning	True
02 Model Data	
RefsetNames_IgnorList	String[]-Array
[0]	xxFACETED
[1]	MODELL_3D_VEREINFACHT
CentreOfGravity_DeviationMax	1E-05
MomentOfInertia_DeviationMax	1E-05
Refset_Volume_DeviationMax	1E-05
Refset_Feature3D_n_DeviationMax	0
AliveFeatures_n_DeviationMax	0
TotalFeatures_n_DeviationMax	0

0.005 ...
festlegen

10-20 testen



CB-Settings

03 Assembly Data	
Assembly_DoCompare	True
AssemblyComponentLevel_DoCompareUntilLevel	1
Matrix_DeviationMax	1E-05
Callout_DoCompare	True
Mating_DoCompare	False
ReferenceComponent_DoCompare	True
RefsetCurr_DoCompare	True
SuppressByExpression_DoCompare	True
SuppressState_DoCompare	True
TranslMatrix_DoCompare	True
Arrangement_DoCompare	False
UG_GeometryNO_DoCompare	False
MemberCount_DoCompare	True
MemberCountDeviationMax	1
MemberCount_Dif_AsErr	False
04 Drawing Data	
ViewPoints_DeviationMax	0,5
ViewOutOfDateStatus_Dif_AsErr	True
ViewAnchorPoint_DoCompair	False
ViewAnchorPointValuesNotListed_AsErr	True
ViewNotes_n_Dif_AsErr	True

0.005 prüfen

MemberCount false
alternativ 10..20 test

MemberCount:

- bedeutet die Anzahl der Objekte in einer Komponente
- Code Details: Given a part occurrence tag or v9 component type as input argument this routine gets the count of members for a given component.

CB-Settings

05 TextSize	
TextOrigin_DeviationMax	0.5
TextBoxOrigin_DeviationMax	0.5
TextBoxSize_DoCompare	True
TextBoxSize_DeviationMax	0.5
Text textSize_DeviationMax	0.5
TextTextAngle_DeviationMax	0.5
06 Performance	
PerfDataEvaluate	True
11 Entities Type25 (UF_draft)	
Entity_Type25_UF_draft_TextValueDif_AsErr	True
Entity_Type25_UF_draft_AssocEnt_Dif_AsErr	True
12 Entities Type26 (UF_dimension)	
Entity_Type26_UF_dimension_type_TextValueDif_AsErr	True
Entity_Type26_AssocEnt_Dif_AsErr	True
20 Part Information	
Density_is_0_AsErr	True
90 DisabledByDefault	
ViewDependentObj_Dif_AsErr	False
LayerObjects_n_DeviationMax	5
LayerObjects_n_dif_AsErr	False
ObjectsWire_n_DeviationMax	5
ObjectsWire_n_dif_AsErr	False

→ Testen

→ Perf = False da keine systematische Untersuchung bei Standard CheckBox Möglich



Dokumentation Objekte: Text Compar of Entity 25(Dimension) / 26(Drafting)

Daten Auszug:

Entity 25 (Left)	Entity 26 (Right)
<Handle>RM%UL=V1.0 PH=z5K51mRHh9c12B%MRN=---- R00036cda00000193</Handle>	<Handle>RM%UL=V1.0 PH=z5K51mRHh9c12B%MRN=---- R00036cda00000196</Handle>
<Name></Name>	<Name></Name>
<Type>26</Type>	<Type>26</Type>
<Subtype>9</Subtype>	<Subtype>9</Subtype>
<Status>3</Status>	<Status>3</Status>
<Displayable>1</Displayable>	<Displayable>1</Displayable>
<Transferable>1</Transferable>	<Transferable>1</Transferable>
<ViewDependent>SH01@0</ViewDependent>	<ViewDependent>SH01@0</ViewDependent>
<Origin>	<Origin>
<X>420.402072</X>	<X>420.402072</X>
<Y>330.643454</Y>	<Y>330.643454</Y>
<Z>0.000000</Z>	<Z>0.000000</Z>
</Origin>	</Origin>
<TextboxOrigin>	<TextboxOrigin>
<X>420.402072</X>	<X>420.402072</X>
<Y>330.643454</Y>	<Y>330.643454</Y>
<Z>0.000000</Z>	<Z>0.000000</Z>
</TextboxOrigin>	</TextboxOrigin>
<TextboxLength>0.000000</TextboxLength>	<TextboxLength>0.000000</TextboxLength>
<TextboxHeight>0.000000</TextboxHeight>	<TextboxHeight>0.000000</TextboxHeight>
<AssociativesNum>1</AssociativesNum>	<AssociativesNum>1</AssociativesNum>
<AssocEnt1>RM%UL=V1.0 PH=z5K51mRHh9c12B%MRN=---- R00036c5b0000017e</AssocEnt1>	<AssocEnt1>RM%UL=V1.0 PH=z5K51mRHh9c12B%MRN=---- R00036c5b0000017e</AssocEnt1>
<AssocEnt2>(null)</AssocEnt2>	<AssocEnt2>(null)</AssocEnt2>
<TextBlocksN>2</TextBlocksN>	<TextBlocksN>2</TextBlocksN>
<TextInfo>	<TextInfo>
<TextType>5</TextType>	<TextType>1</TextType>
<TextFont>1</TextFont>	<TextFont>1</TextFont>
<TextSize>5.000000</TextSize>	<TextSize>5.000000</TextSize>
<TextAngle>0.000000</TextAngle>	<TextAngle>0.000000</TextAngle>
<TextNumLines>1</TextNumLines>	<TextNumLines>1</TextNumLines>
<Text>	<Text>
<Text>R</Text>	<Text>125</Text>
</Text>	</Text>
</TextInfo>	</TextInfo>
<TextInfo>	<TextInfo>
<TextType>1</TextType>	<TextType>5</TextType>
<TextFont>1</TextFont>	<TextFont>1</TextFont>
<TextSize>5.000000</TextSize>	<TextSize>5.000000</TextSize>
<TextAngle>0.000000</TextAngle>	<TextAngle>0.000000</TextAngle>
<TextNumLines>1</TextNumLines>	<TextNumLines>1</TextNumLines>
<Text>	<Text>
<Text>125.00</Text>	<Text>R</Text>
</Text>	</Text>
</TextInfo>	</TextInfo>
</Entity>	</Entity>
<Entity xsi:type="Entity_Type26_SubType9">	<Entity xsi:type="Entity_Type26_SubType9">
<Handle>RM%UL=V1.0 PH=z5K51mRHh9c12B%MRN=---- R0003f9c900000196</Handle>	<Handle>RM%UL=V1.0 PH=z5K51mRHh9c12B%MRN=---- R0003f9c900000197</Handle>

Klärung wie soll die Analyse erfolgen:

Auswertung mit String ergibt "125.00" <> "125" = Abweichung

Auswertung mit String ergibt Cdbl(„125.00“) = Cdbl („125“) = keine Abweichung



Text Type assignment Entity_Type25 // UF_dim*

T1

Text Zeile 1

Text Zeile 2

```

3460      <Entity xsi:type="Entity_Type25_SubType1">
3461      <Handle>RMBgStrukEx-Einzelteil-04_dwg1.prt R00008ead0000002b</Handle>
3462      <Name></Name>
3463      <Type>25</Type>
3464      <Subtype>1</Subtype>
3465      <Status>3</Status>
3466      <Displayable>1</Displayable>
3467      <Transferable>1</Transferable>
3468      <ViewDependent>Sheet 1@0</ViewDependent>
3469      <Origin>
3470      <X>75.977730</X>
3471      <Y>43.122115</Y>
3472      <Z>0.000000</Z>
3473      </Origin>
3474      <TextboxOrigin>
3475      <X>75.977730</X>
3476      <Y>43.122115</Y>
3477      <Z>0.000000</Z>
3478      </TextboxOrigin>
3479      <TextboxLength>0.000000</TextboxLength>
3480      <TextboxHeight>0.000000</TextboxHeight>
3481      <AssociativesNum>0</AssociativesNum>
3482      <TextBlocksN>1</TextBlocksN>
3483      <TextInfo>
3484      <TextType>1</TextType>
3485      <TextFont>1</TextFont>
3486      <TextSize>3.500000</TextSize>
3487      <TextAngle>0.000000</TextAngle>
3488      <TextNumLines>2</TextNumLines>
3489      <Texts>
3490      <Text>Text Zeile 1</Text>
3491      <Text>&lt;F2&gt;&lt;C2.250&gt;Text Zeile 2&lt;C&gt;&lt;F&gt;</Text>
3492      </Texts>
3493      </TextInfo>
3494      </Entity>

```

List of Texttypes

for Entity_Type25 // UF_drafting*

Text Type 1 = Text
 Text Type 2 = --
 Text Type 3 = --
 Text Type 4 = --
 Text Type 5 = --
 Text Type 6 = --

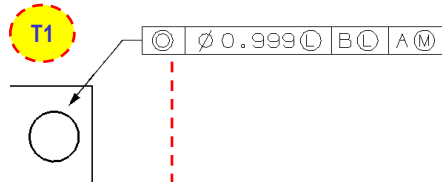
List of Texttypes

for Entity_Type26 // UF_dim*

Text Type 1 = Dim.Value
 Text Type 2 = --
 Text Type 3 = Dim.Tolerance
 Text Type 4 = --
 Text Type 5 = Dim.PreText
 Text Type 6 = Dim.ExtText



Text Type assignment **Entity_Type25 // UF_dim***



```

5097      <Entity xsi:type="Entity_Type25_SubType4">
5098      <Handle>RMBgStrukEx-Einzelteil-04_dwg1.prt R0000b4e80000002d</Handle>
5099      <Name></Name>
5100      <Type>25</Type>
5101      <Subtype>4</Subtype>
5102      <Status>3</Status>
5103      <Displayable>1</Displayable>
5104      <Transferable>1</Transferable>
5105      <ViewDependent>Sheet 3@0</ViewDependent>
5106      <Origin>
5107      <X>234.666180</X>
5108      <Y>217.442702</Y>
5109      <Z>0.000000</Z>
5110      </Origin>
5111      <TextboxOrigin>
5112      <X>234.666180</X>
5113      <Y>217.442702</Y>
5114      <Z>0.000000</Z>
5115      </TextboxOrigin>
5116      <TextboxLength>0.000000</TextboxLength>
5117      <TextboxHeight>0.000000</TextboxHeight>
5118      <AssociativesNum>1</AssociativesNum>
5119      <AssocEnt1>(null)</AssocEnt1>
5120      <AssocEnt2>(null)</AssocEnt2>
5121      <TextBlocksN>1</TextBlocksN>
5122      <TextInfo>
5123      <TextType>1</TextType>
5124      <TextFont>1</TextFont>
5125      <TextSize>3.500000</TextSize>
5126      <TextAngle>0.000000</TextAngle>
5127      <TextNumLines>1</TextNumLines>
5128      <Texts>
5129      <Text>&lt;&#38;70&gt;&lt;&#38;11&gt;&lt;O&gt;0.999&lt;
5130      </Texts>
5131      </TextInfo>
5132      </Entity>

```

List of Texttypes

```
for Entity_Type25 // UF_drafting*
```

Text Type 1 = Text

Text Type 2 = --

Text Type 3 = --

Text Type 4 = --

Text Type 5 = --

Text Type 6 = --

List of Texttypes

```
for Entity_Type26 // UF_dim*
```

Text Type 1 = Dim.Value

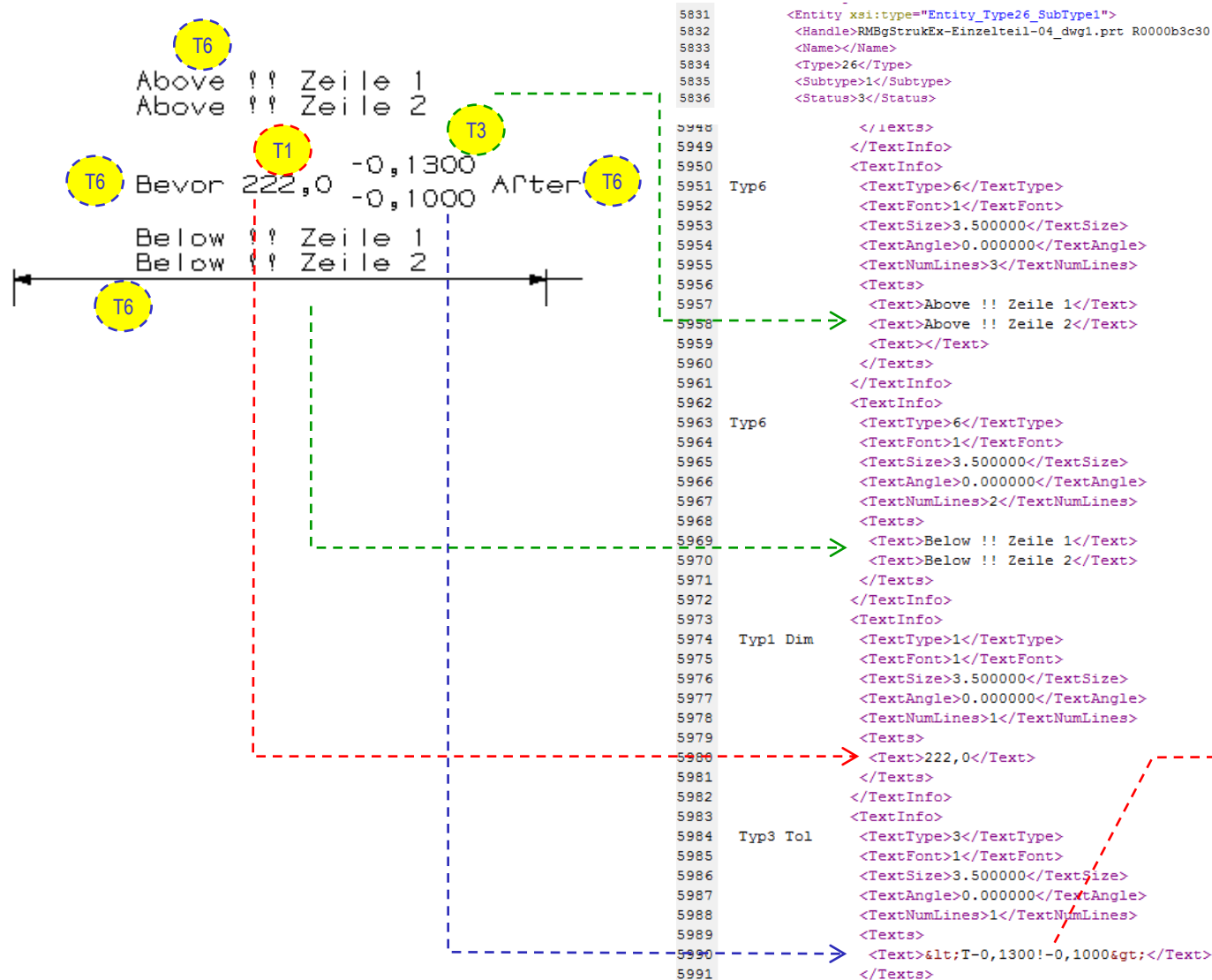
Text Type 2 = --

Text Type 3 = Dim.Tolerance

Text Type 4 = --

Text Type 5 = Dim.PreText

Text Type 6 = Dim.ExtText

Text Type assignment **Entity_Type26 // UF_drafting*****List of Texttypes****for Entity_Type25 // UF_drafting***

Text Type 1 = Text
 Text Type 2 = --
 Text Type 3 = --
 Text Type 4 = --
 Text Type 5 = --
 Text Type 6 = --

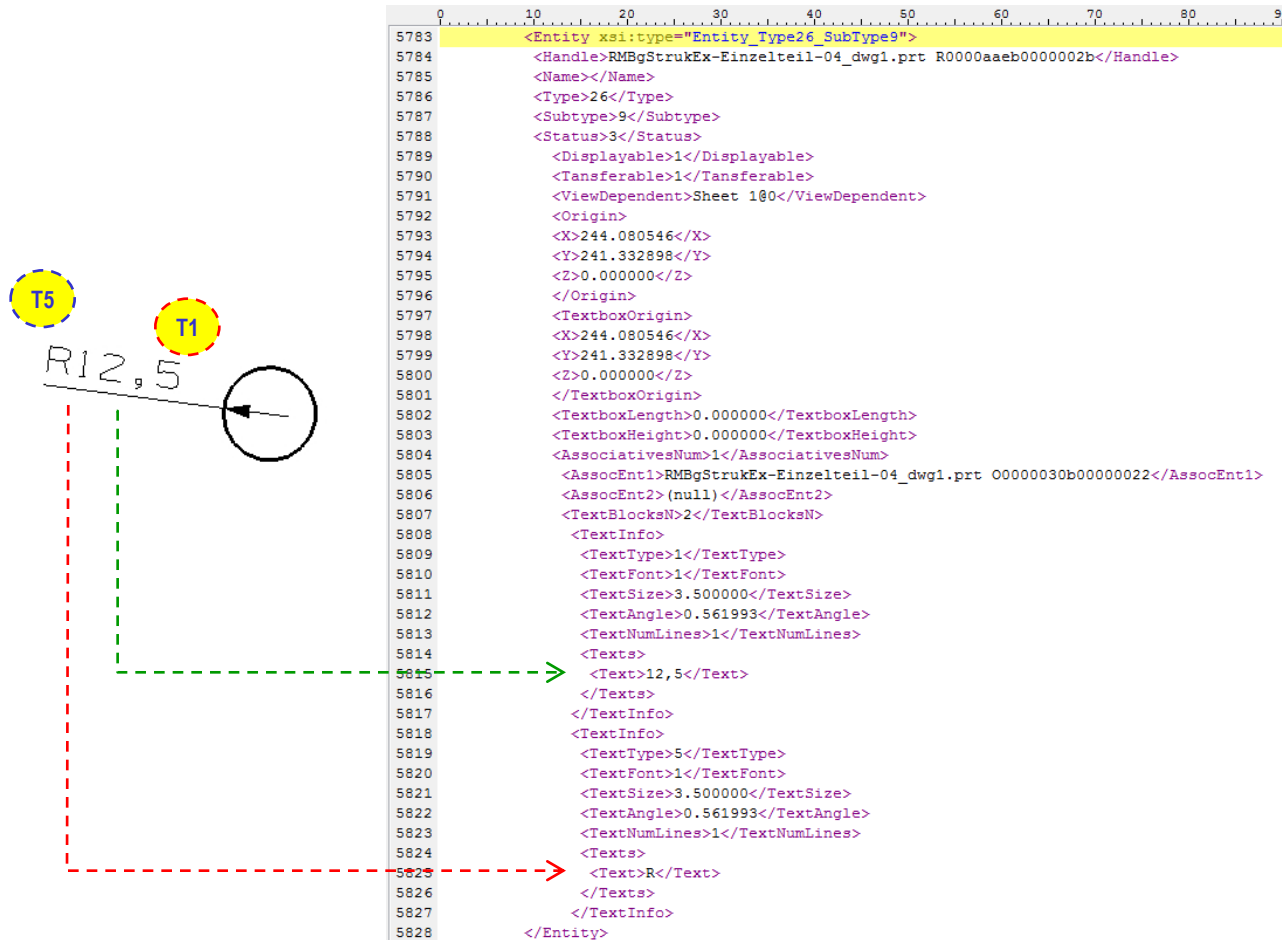
List of Texttypes**for Entity_Type26 // UF_dim***

Text Type 1 = Dim.Value
 Text Type 2 = --
 Text Type 3 = Dim.Tolerance
 Text Type 4 = --
 Text Type 5 = Dim.PreText
 Text Type 6 = Dim.ExtText

on TextType 3 = Tolerances
 T-0,1300!-0,1000
 divide in
 -0,1300
 -0,1000



Text Type assignment **Entity_Type26 // UF_drafting***



List of Texttypes

for Entity_Type25 // UF_drafting*

Text Type 1 = Text
 Text Type 2 = --
 Text Type 3 = --
 Text Type 4 = --
 Text Type 5 = --
 Text Type 6 = --

List of Texttypes

for Entity_Type26 // UF_dim*

Text Type 1 = Dim.Value
 Text Type 2 = --
 Text Type 3 = Dim.Tolerance
 Text Type 4 = --
 Text Type 5 = Dim.PreText
 Text Type 6 = Dim.ExtText

Ablage der CB-Daten im CB Archiv (neu 18.08.2012)

Neu 18.8.2012

Im nachfolgenden wird beschrieben nach welchem Schema die Extrahierten CheckBox Daten im Filesystem abgelegt werden:

Es gelten die folgenden Syntaxregeln:

Verzeichnis : .\CBData\#TcSitelId#\#ItemId:5#\#ItemId#\#RevId#\

TC.Dataset.. : @DB/ItemId/RevId/DatasetType/DatasetName

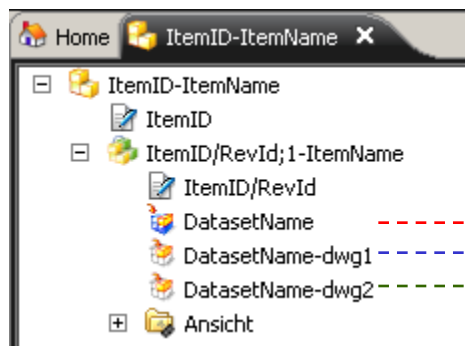
CB.XML..... : ItemID_RevId_DatasetType_DatasetName_#ExtractName.xml

CB.CGM..... : ItemID_RevId_DatasetType_DatasetName_SheetName_#ExtractName.cgm

Hinweis: via Option: -CBDataOrg_BaseNameSchema CBRootPP_LL=n.Chars (neu 16.10.2012)

kann die Länge von .\CBData\#TcSitelId#\#ItemId:n.chars# gesteuert werden Option in Script CheckBox_CustomStart.cmd eintr.

Daten in TC

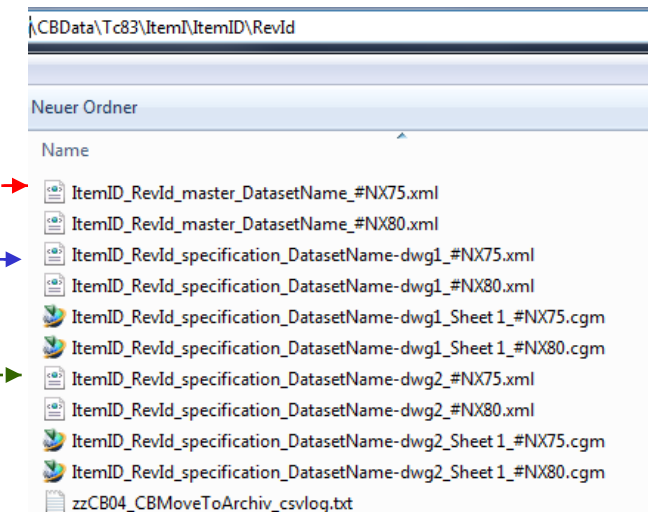


Daten im JobMgr

Ir.Id	O.Name	O.CliName	O.Type
ItemID/RevId	DatasetName	@DB/ItemID/RevId/master/DatasetName	UGMASTER
ItemID/RevId	DatasetName-dwg1	@DB/ItemID/RevId/specification/DatasetName-dwg1	UGPART
ItemID/RevId	DatasetName-dwg2	@DB/ItemID/RevId/specification/DatasetName-dwg2	UGPART

CB Daten auf dem Filesystem nach Extraktion der Daten aus dem PDM-System

JobManagerV2\90-DATA\CustomerNameShort_WorkInst_TEST\12-Data\CBData\Tc83\Item\ItemID\RevId





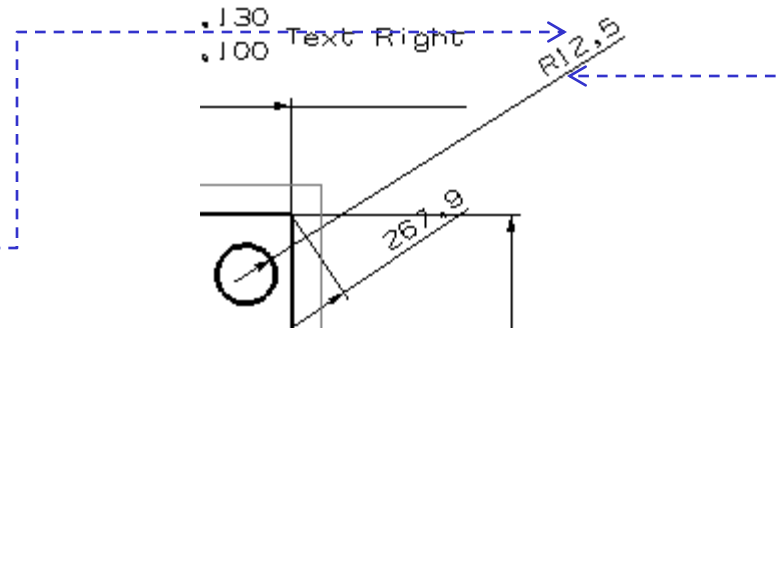
Dokumentation Objekte: Zuordnung Dimension and Text Entity 26

Zuordnung der Text: DIM

```

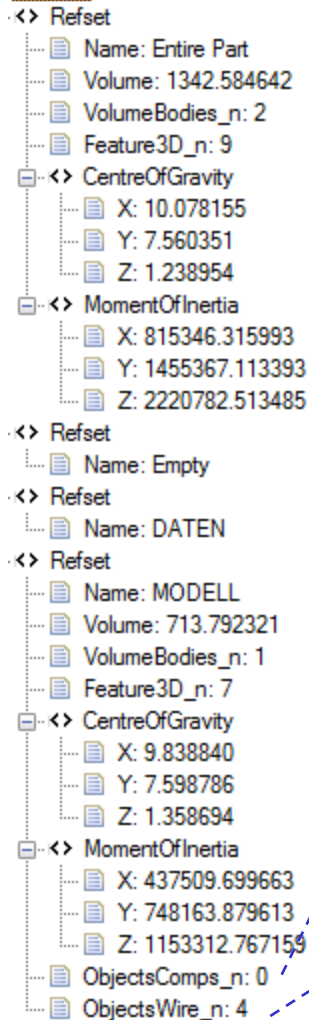
<TextBlocksN>2</TextBlocksN>
  <TextInfo>
    <TextType>1</TextType>
    <TextFont>1</TextFont>
    <TextSize>3.500000</TextSize>
    <TextAngle>0.561993</TextAngle>
    <TextNumLines>1</TextNumLines>
    <Texts>
      <Text>12,5</Text>
    </Texts>
  </TextInfo>
  <TextInfo>
    <TextType>5</TextType>
    <TextFont>1</TextFont>
    <TextSize>3.500000</TextSize>
    <TextAngle>0.561993</TextAngle>
    <TextNumLines>1</TextNumLines>
    <Texts>
      <Text>R</Text>
    </Texts>
  </TextInfo>

```





Die Funktionen der CheckBox: „Überprüfung des 3D-Modells“



Add New 3.7.2012

Anz. Verb. Komponenten die zum Refset gehören

Anz. 2D Wire Objekte je Refset
Hinweis: ab NX7.5 gibt es hier Abweichungen
da die Lightweight Objekte jetzt die
ObjectsWire_n beinhalten.



Die Funktionen der Check-Box: „Überprüfung von Baugruppen“ Settings

Component

- File: D:\UGCache\ug0000585792.prt
- Handle: RMug0000585790.prt 00000177b000000d8
- InstanceHandle: RMug0000585790.prt 000001779000000d8
- SuppressState: 0
- <> SuppressByExpression
- <> ReferenceComponent
- <> UG_Geometry
 - RefsetCurr: 3_D_ZEICHNUNG
 - InstanceName: UG0000585792
 - ComponentLevel: 1
- <> Callout
- MemberCount: 3
- <> ComponentArrangement
 - UsedArrangement: Arrangement 1
- <> Mating
 - IsMated: 1
 - MatingName: UG0000585792->UG0000585823
 - MatingStatus: 0
- <> Matrix
 - X1: 1.000000
 - Y1: 0.000000
 - Z1: 0.000000
 - X2: 0.000000
 - Y2: 1.000000
 - Z2: 0.000000
 - X3: 0.000000
 - Y3: 0.000000
 - Z3: 1.000000
 - originX: -126.495489
 - originY: 3.899307
 - originZ: -4.750000

03 Assembly Data

Assembly_DoCompare	True
AssemblyComponentLevel_DoCompareUntilLevel	1
Matrix_DeviationMax	1E-05
Callout_DoCompare	True
Mating_DoCompare	False
ReferenceComponent_DoCompare	True
RefsetCurr_DoCompare	True
SuppressByExpression_DoCompare	True
SuppressState_DoCompare	True
TranslMatrix_DoCompare	True
Arrangement_DoCompare	True
UG_GeometryNO_DoCompare	True
MemberCount_DoCompare	True
MemberCountDeviationMax	1
MemberCount_Dif_AsErr	False



Dokumentation Objekte: Auswertung Entity 25 / 26

Quellcode Auszug:

```

2444 ' ApplWhatsNew: 2.688;23.09.2010;J.Fes;CheckBox;Ver.Info;"es werden bei Entity_Type26 nur die Entity ausgewertet die den Status = 3 haben."
2445 If e1_26.Status = "3" And e1_26.ViewDependent <> "" Then

```

Daten Auszug:

<pre> 2945 </Entity> 2946 <Entity xsi:type="Entity_Type26_SubType5"> 2947 <Handle>RM%UL=V1.0 PH=DtB17Xywh9c12B%MRN=AA-- R0006f77500000101</ 2948 <Name></Name> 2949 <Type>26</Type> 2950 <Subtype>5</Subtype> 2951 <Status>2</Status> 2952 <Displayable>1</Displayable> 2953 <Transferable>1</Transferable> 2954 <ViewDependent></ViewDependent> 2955 <Origin> 2956 <X>2.513459</X> 2957 <Y>-0.000000</Y> 2958 <Z>14.457843</Z> 2959 </Origin> 2960 <TextboxOrigin> 2961 <X>2.513459</X> 2962 <Y>-0.000000</Y> 2963 <Z>14.457843</Z> 2964 </TextboxOrigin> 2965 <TextboxLength>0.000000</TextboxLength> 2966 <TextboxHeight>0.000000</TextboxHeight> 2967 <AssociativesNum>2</AssociativesNum> 2968 <AssocEnt1>RM%UL=V1.0 PH=DtB17Xywh9c12B%MRN=AA-- R0006f76c0000 2969 <AssocEnt2>(null)</AssocEnt2> 2970 <TextBlocksN>1</TextBlocksN> 2971 <TextInfo> 2972 <TextType>1</TextType> 2973 <TextFont>1</TextFont> 2974 <TextSize>0.150000</TextSize> 2975 <TextAngle>0.000000</TextAngle> 2976 <TextNumLines>1</TextNumLines> 2977 <Texts> 2978 <Text>&lt;XA@p165&gt;</Text> 2979 </Texts> 2980 </TextInfo> 2981 </Entity> </pre>	<pre> 2940 </Entity> 2941 <Entity xsi:type="Entity_Type26_SubType5"> 2942 <Handle>RM%UL=V1.0 PH=DtB17Xywh9c12B%MRN=AA-- R0006f77500000101< 2943 <Name></Name> 2944 <Type>26</Type> 2945 <Subtype>5</Subtype> 2946 <Status>2</Status> 2947 <Displayable>1</Displayable> 2948 <Transferable>1</Transferable> 2949 <ViewDependent></ViewDependent> 2950 <Origin> 2951 <X>2.513459</X> 2952 <Y>-0.000000</Y> 2953 <Z>14.457843</Z> 2954 </Origin> 2955 <TextboxOrigin> 2956 <X>2.513459</X> 2957 <Y>-0.000000</Y> 2958 <Z>14.457843</Z> 2959 </TextboxOrigin> 2960 <TextboxLength>0.000000</TextboxLength> 2961 <TextboxHeight>0.000000</TextboxHeight> 2962 <AssociativesNum>2</AssociativesNum> 2963 <AssocEnt1>RM%UL=V1.0 PH=DtB17Xywh9c12B%MRN=AA-- R0006f76c0000 2964 <AssocEnt2>(null)</AssocEnt2> 2965 <TextBlocksN>1</TextBlocksN> 2966 <TextInfo> 2967 <TextType>1</TextType> 2968 <TextFont>1</TextFont> 2969 <TextSize>0.150000</TextSize> 2970 <TextAngle>0.000000</TextAngle> 2971 <TextNumLines>1</TextNumLines> 2972 <Texts> 2973 <Text>0.984</Text> 2974 </Texts> 2975 </TextInfo> 2976 </Entity> </pre>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Info: aktuell (23.01.2013) werden nur Entity 25/26 Objekte ausgewertet die folgende Daten haben:
 Status=3 und ViewDependent<>""

Neu 23.01.2013 J.Fes



NXCheckBox V2.0.0.2 30.01.2012 Details: MomentOfIntertinaN1 + CentrOfGrafitiN1

```

<ModelData>
  <Refsets>
    <Refset>
      <Name>Entire Part</Name>
      <Volume>11284.060003</Volume>
      <VolumeBodies_n>12</VolumeBodies_n>
      <Feature3D_n>15</Feature3D_n>
      <CentreOfGravity>
        <X>46.630783</X>
        <Y>-93.123528</Y>
        <Z>1.365270</Z>
      </CentreOfGravity>
      <MomentOfInertia>
        <X>1438996262.292540</X>
        <Y>229724488.367080</Y>
        <Z>1668204123.025018</Z>
      </MomentOfInertia>
      <CentreOfGravityN1>
        <X>53.679451</X>
        <Y>-119.552786</Y>
        <Z>1.384253</Z>
      </CentreOfGravityN1>
      <MomentOfInertiaN1>
        <X>1437593900.038755</X>
        <Y>220089768.898231</Y>
        <Z>1657262983.450863</Z>
      </MomentOfInertiaN1>
    </Refset>
  </Refset>

```

Ab dieser Version ist die optionale Berechnung der Massenschwerpunktes und des Trägheitsmomentes mit dem spezifischen Gewicht für alle Volumenkörper = 1 und dem entire Part reference set eingebaut

Usage: Environ
 NXCB_ANALYZE_NORMALIZED_MASS_P
 ROPS=TRUE

Beispiel windows:

set

NXCB_ANALYZE_NORMALIZED_MASS_P
 ROPS=TRUE

Beispiel linux:

export

NXCB_ANALYZE_NORMALIZED_MASS_P
 ROPS=TRUE



NXCheckBox V2.0.0.2 30.01.2012 Details: MomentOfIntertinaN1 + CentrOfGrafitiN1

```

<ModelData>
  <Refsets>
    <Refset>
      <Name>Entire Part</Name>
      <Volume>11284.060003</Volume>
      <VolumeBodies_n>12</VolumeBodies_n>
      <Feature3D_n>15</Feature3D_n>
      <CentreOfGravity>
        <X>46.630783</X>
        <Y>-93.123528</Y>
        <Z>1.365270</Z>
      </CentreOfGravity>
      <MomentOfInertia>
        <X>1438996262.292540</X>
        <Y>229724488.367080</Y>
        <Z>1668204123.025018</Z>
      </MomentOfInertia>
      <CentreOfGravityN1>
        <X>53.679451</X>
        <Y>-119.552786</Y>
        <Z>1.384253</Z>
      </CentreOfGravityN1>
      <MomentOfInertiaN1>
        <X>1437593900.038755</X>
        <Y>220089768.898231</Y>
        <Z>1657262983.450863</Z>
      </MomentOfInertiaN1>
    </Refset>
  </Refset>

```

Telko 01.02.2013 B.Schieber J.Feuerstein
Body des Parts

Dem Refset „Entire Part“

Der Berechnung werden die

- Es werden nur Body's des Workparts der Berechnung hinzugefügt

- Prüfen via:

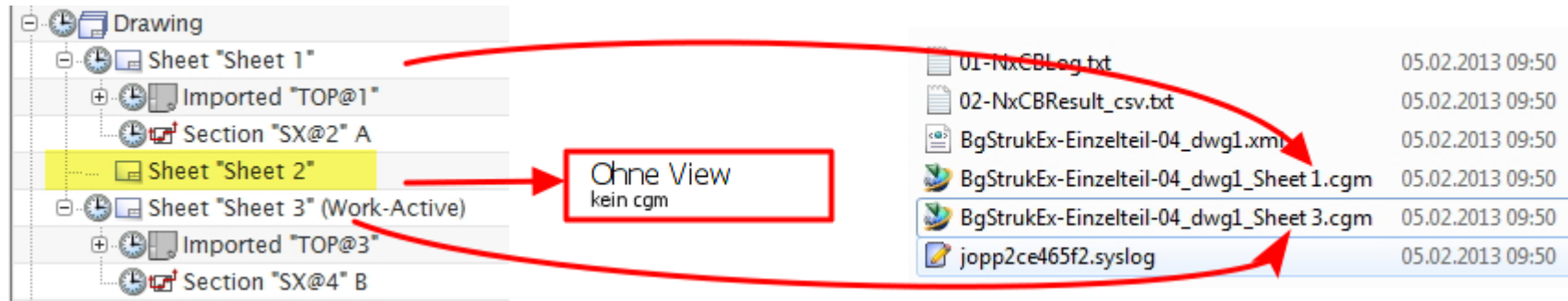
Assembly 2 Bodys (mit unterschiedlicher Density)

2 Unter Komp Body -> Volumen

Einheiten sind: gr + cm



CGM File Erzeugung (5.2.2013)



Steuerung erfolgt über den Parameter -Sheet=_All_,_with_view_

-Sheet=_All_,_with_view_ → dass alle Zeichnungen mit views verwendet werden.

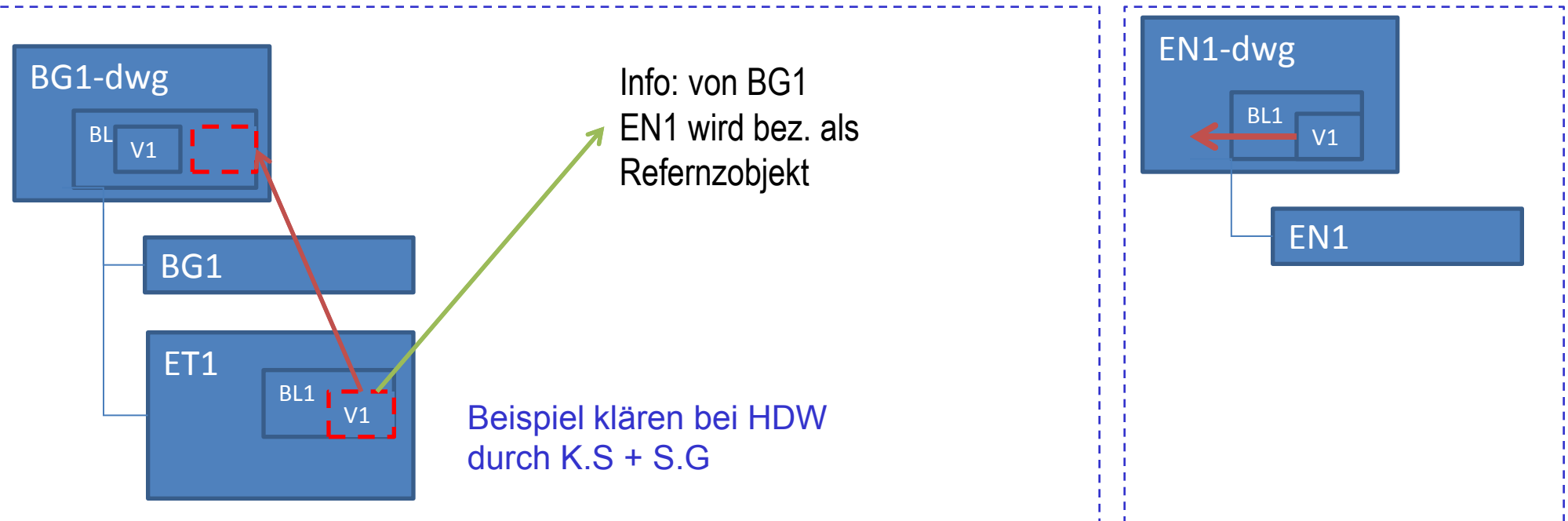
Sind in einer Zeichnung keine Views vorhanden, dann wird diese Zeichnung übersprungen.

-Sheet=_All_ → nimmt alle Zeichnungen

-Sheet=Z1 → nimmt Z1

-Sheet=Z → nimmt alle Zeichnung die ein Z im Namen enthalten

Referenz Views - Ansicht (7.2.2013)



NX4 Ansicht (ANT)

Baugruppen-Navigator		
DB_Part_Name	Teilename	DB_PART_DESC
<input checked="" type="checkbox"/> 400_4300_26_10_05	D1253P_0000163726/01 (s...	Anschlagwinkel
<input checked="" type="checkbox"/> 4300_26_10_05...	D1253P_0000111346/03	Brennteil
<input checked="" type="checkbox"/> 400_4300_26_10...	D1253P_0000163726/01	Anschlagwinkel





UGPART = Spec
View aus einer Datei
UGAMSTER

NX8 Ansicht (ANT)











Anzahl
Schnitte
<input checked="" type="checkbox"/> D1253P_0000163726/01_Z01 von D1253P_0000163726
<input checked="" type="checkbox"/> D1253P_0000111346
<input checked="" type="checkbox"/> D1253P_0000163726

Referenz Views - Ansicht (10.02.2013)









NX7.5 Ansicht (ANT)

Assembly Navigator			
Descriptive Part Name	Info	Count	Reference Set
Sections			
 BgStrukEx-Einzelteil-01_dwg1		4	
 BgStrukEx-Einzelteil-04_dwg1		2	Model ("MODE...
 BgStrukEx-Einzelteil-01			Model ("MODE...

NX8.0 Ansicht (ANT)

Sections					
 BgStrukEx-Einzelteil-01_dwg1			4		
 BgStrukEx-Einzelteil-04_dwg1				2	Model ("MODEL")
 BgStrukEx-Einzelteil-01					Model ("MODEL")

NX8.5 Ansicht (ANT)

Assembly Navigator					
Descriptive Part Name	Info	R.	M	Count	Reference Set
Sections					
 BgStrukEx-Einzelteil-01_dw...				4	
 BgStrukEx-Einzelteil-04_...				2	Model ("MODE...
 BgStrukEx-Einzelteil-01					Model ("MODE...