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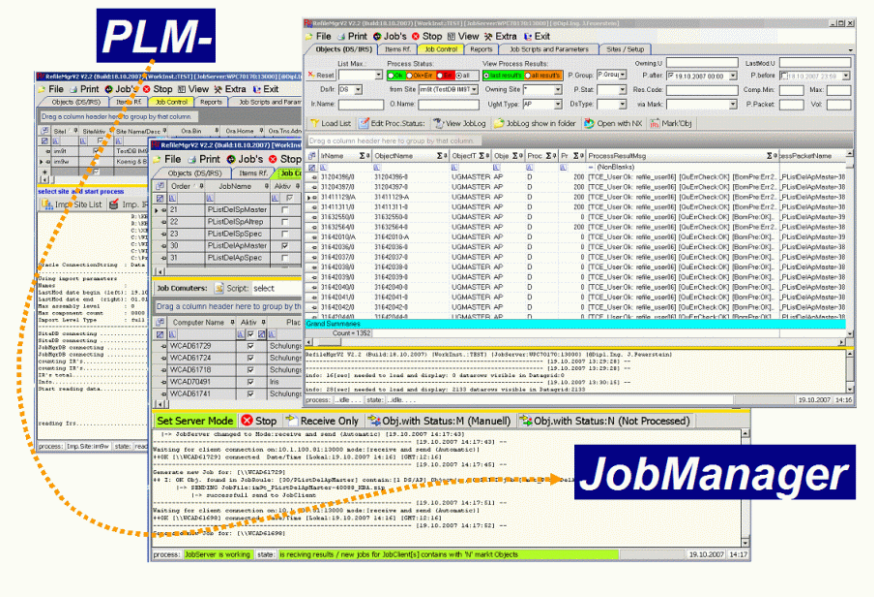
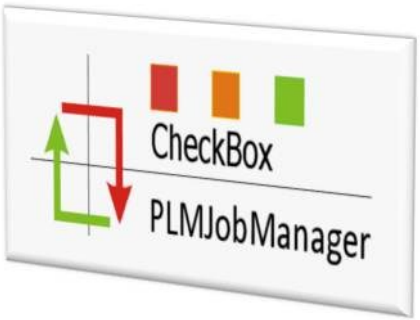
* CheckBox *





mit dem PLMJobManager
Details der Daten Analyse

Erstellt von: Josef Feuerstein

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Inhaltsverzeichnis

Glosar	Folie: 3
CheckBox process description	Folie: 5
JobManager Settings	Folie: 6
JobManager CheckBox Script	Folie: 7
Daten Extraktion	Folie: 9
JobManager Settings	Folie: 12
Daten Extraktion	Folie: 13
CB-Settings	Folien: 14 - 16
Parthistory Check / Redesingn (new 22.10.2013) JobMgr.Issue-1163	Folie: 17
Section: Model Data MD	Folie: 18
Model Data: New section PrototypeAnalysis / SolidBodys / (New 08.03.2013)	Folie: 19
Model Data: New section PrototypeAnalysis / ModelBodys / (New 08.03.2013)	Folie: 20
Model Data: Comparing Moment Of Inertial	Folien: 21 - 23
ModelData: Comparing Moment Of Inertial Settings	Folie: 24
Die Funktionen der Check-Box: „Überprüfung von Baugruppen“ Settings	Folie: 25
Dokumentation Objekte: Text Compair of Entity 25 (Drafting) / 26 (Dimension)	Folie: 27
Dokumentation Objekte: Auswertung Entity 25 / 26	Folie: 28
Text Type assignment Entity_Type25 // UF_drafting	Folien: 29 - 30
Text Examples containing relationships to: Expression // Obj.Attr // Part.Attr.	Folie: 31
Auswertung Texte mit Releationen <WID1*0@?VWLETTER> #New: 12.04.2013	Folie: 32
Text Type assignment Entity_Type26 // UF_dim*	Folien: 33 - 34
Ablage der CB-Daten im CB Archiv (neu 18.08.2012)	Folie: 36
CGM File Erzeugung (5.2.2013)	Folie: 38
Referenz Views - Ansicht (7.2.2013)	Folie: 39
Referenz Views - Ansicht (10.02.2013)	Folie: 40

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Glosar

No	SORT	Long	Desctription	Notes	Dates
01	GVP	Geometrische Validation Properties	Definiert welche der MP Daten die Geometrischen Daten beinhaltet.	LOTAR Definition	#New: 5.4.2013
02	MP	Massproperties	Die Massproperties umfassen die zu prüfenden Daten wie z.B. 3D SoldiBodys Attribute	Begriff von MTU	#New: 5.4.2013

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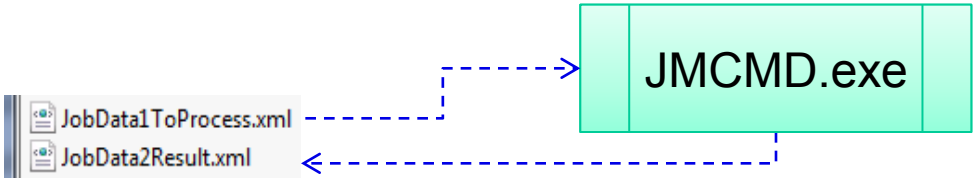
CheckBox process description

How the CheckBox Data are generated

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

Hints:
Thrue CB1 / CB2 Processes CB-Data must be in this way extracted that the extracted CB-Data are comparable. Please check settings for customisation

- TC: Data / TC Root
- TC: Environment's
- NX: Load Option s
- NX: Customer defaultes → Patternfiles etc.
- NX: Environment's



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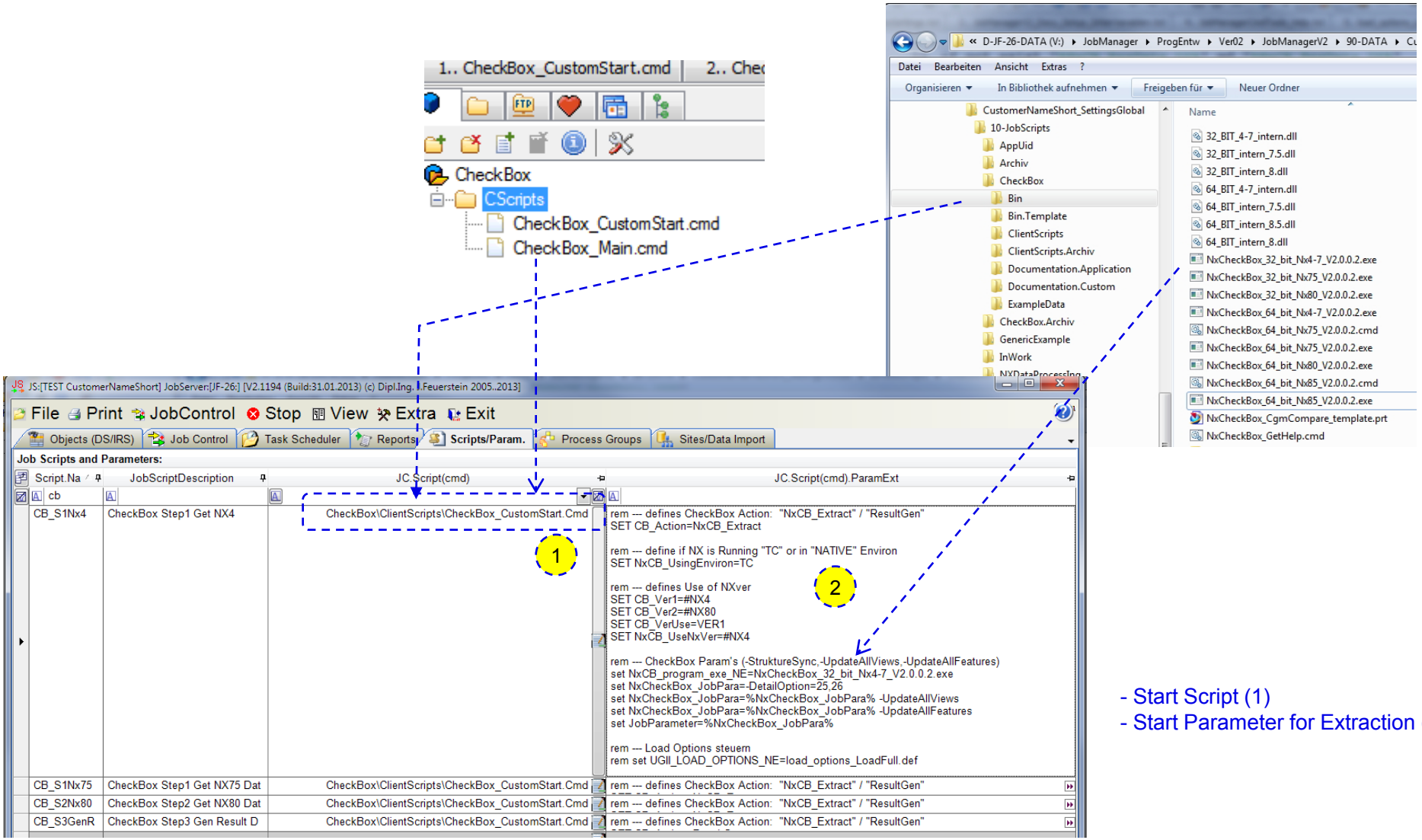
JobManager Settings



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

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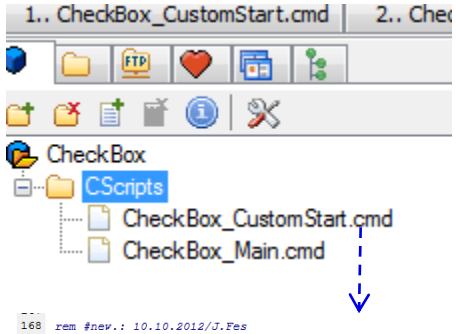
JobManager CheckBox Script




```
rem #new.: 10.10.2012/J.Fes
rem #ToDo: Setup RootPP_LL defines length off partical path of
rem        CheckBox Path .\12-Data\JobMgrData\#SiteID#\#ItemId#:#RootPP_LL#\#ItemId#\#RevId#\
REM set JobMgrDataOrg_BaseNameSchema_Custom=RootPP_LL:10
set JobMgrDataOrg_BaseNameSchema_Custom=
rem #ToDo: Define  JobMgrDataOrg_Root_DP_Custom  or use default
set JobMgrDataOrg_Root_DP_Custom=12-Data\JobMgrData

rem -- #Step: verzweigen in die jeweilige version des CB Vorgangs
if /I "%CB_Action%" equ "NxCB_Extract" (
  if /i "%CB_VerUse%" equ "VER1"  goto :CB_VerUse_Ver1
  if /i "%CB_VerUse%" equ "VER2"  goto :CB_VerUse_Ver2
)
```

```
:CB_VerUse_Ver1
setlocal
 REM #Doc: Get CbData for Nx Version cur in use Example: Nx2..NX80
 set TcPromtCmd=Unkown please Check settings in:[%0]

 if /i "%JobMgr_Debug%" neq "ON" goto :JumbOver
  Echo #Debug:
  Echo Start excuting: [CB_VerUse_Ver1]
  pause
:JumbOver

 REM #ToDo: set Custom Prompt for CB Data Extract
 if /i "%TcSiteId%" neq "CustomSideNameCur" goto :JumbOver1
  set TcPromtCmd=%UG_SHR_DIR%\ugnx4\env\start_nx4.bat
  set TcPromtCmdOpt=de iman_prompt CustomSideNameCur v910
:JumbOver1

 if /i "%JobMgr_Debug%" neq "ON" goto :JumbOver_Debug
  Echo #Debug........: befor excuting:
  Echo  TcPromtCmd...: [%TcPromtCmd%]
  Echo  TcPromtCmdOpt: [%TcPromtCmdOpt%]
  pause
:JumbOver_Debug

 if not exist "%TcPromtCmd%" goto :ToPromtCmdError
 call :Echo "excuting TcPrompt:[%TcPromtCmd% %TcPromtCmdOpt%]"
 call "%TcPromtCmd%" %TcPromtCmdOpt%

 rem -- #Step: start CheckBox Main to extract Data
 call "%CmdCurRoot_DP%\CheckBox_Main.cmd"
endlocal
goto :MyEnd
```

Options parameter view details in: NxCheckBox_64_bit_Nx85_V2.0.0.2_Help.txt

JC.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 (-StruktureSync,-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
```

2.. CheckBox_Main.cmd

```
rem -- #Step: Verzweigen in die erforderliche UnterRoutine CB_Action ----------
if /I "%CB_Action%" neq "NxCB_Extract" goto :NxCB_Extract_StepOver
  call :NxCBox_Extract_UsingEnvironTC
:NxCB_Extract_StepOver

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

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

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

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

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

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Daten Extraktion

Zusammenfassung der Daten:

Beim extrahieren der Daten werden CB.Log Files ausgewertet und mit den folgenden Teilergebnissen zusammengefasst. Nachfolgend der CheckBox Output und die Zuordnung der CheckBox Extraktion Ergebnisse.

- PL = Part load (1)
- UF = Update all Feature (2)
- UD = Update Drawing (3)
- PH = Part Header (4)
- MD = Model Data (5)
- AS = Assembly Data (6)
- DR = Drawing Data (8)
- EN = Entity (9)
- CBXml = CB.Data File (xml) (10)
- CGM = Drawing .cgm Files

Die Extractions Ergebnisse werden nach der Daten Extraktion im JobManager übernommen.

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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) 1
- MD = Model Data (from XML) 2
- AS = Assembly Data (from XML) 3
- DR = Drawing Data (from XML) 4
- EN25 = Entity Data Drafting.Text (from XML) 5
- EN26 = Entity Data Dimension (from XML) 6
- DC = Drawing Compare (PPM from Tiff.Diff) 7
- PI = Part Information (from XML) 8

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

`[PH:OK][MD:OK][AS:OK][DR:OK][EN25:OK][EN26:OK][DC:OK][PI:OK]`

1 2 3 4 5 6 7 8

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

`[PH:OK][MD:ERR:MofIn][AS:ERR:Comp][DR:OK][EN25:OK][EN26:OK][DC:OK][PI:OK]`

1 2 3 4 5 6 7 8

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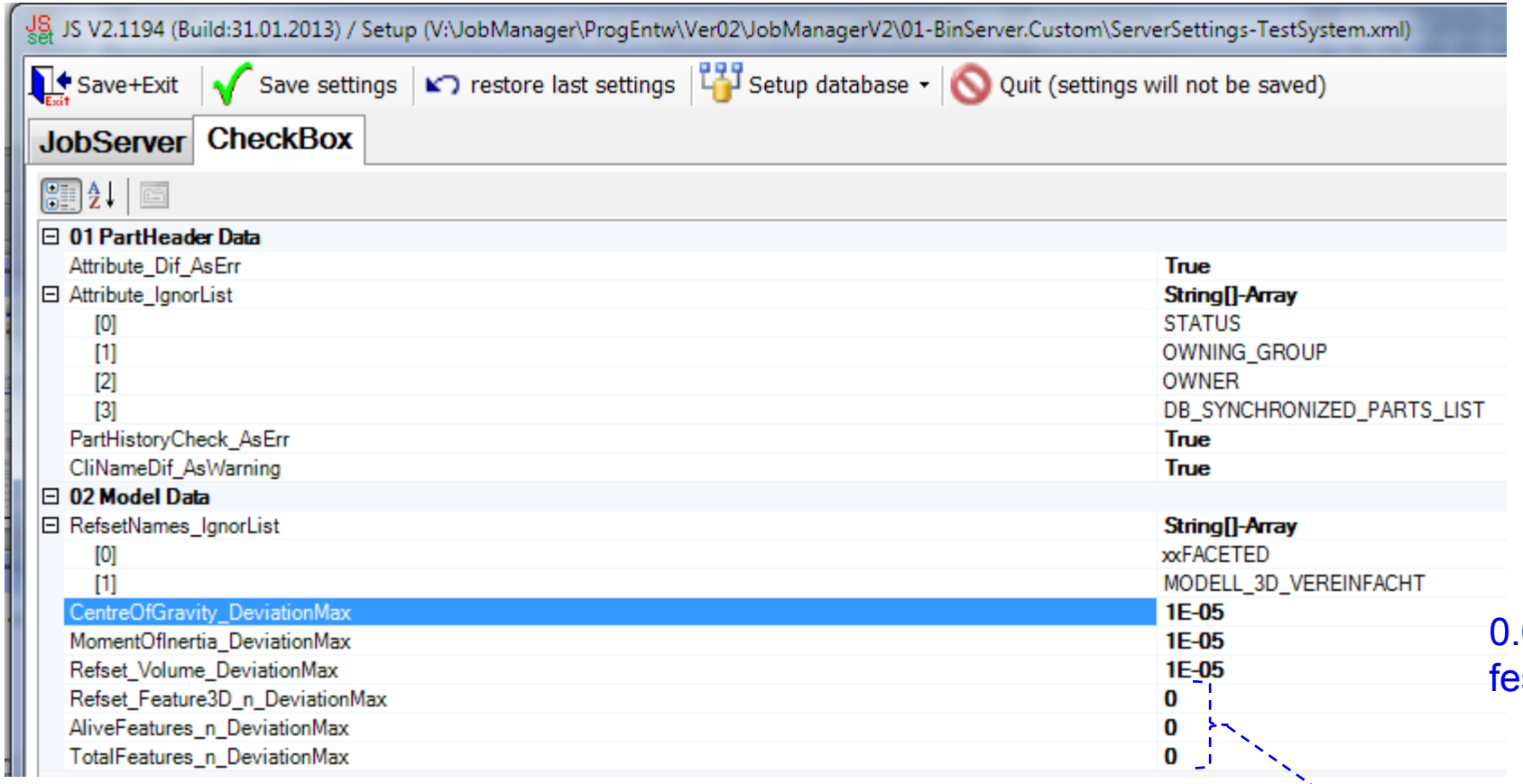
CB-Settings



0.005 … festlegen

10-20 testen

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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
TransIMatrix_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.

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CB-Settings

05 TextSize	
TextOrigin_DeviationMax	**0.5**
TextBoxOrigin_DeviationMax	**0.5**
TextBoxSize_DoCompare	**True**
TextBoxSize_DeviationMax	**0.5**
TextTextSize_DeviationMax	**0.5**
TextTextAngle_DeviationMax	**0.5**
06 Performance	
PerfDataEvaluate	**True**
11 EntitiesType25 (Uf_draft)	
Entity_Type25_UF_draft_TextValueDif_AsErr	**True**
Entity_Type25_UF_draft_AssocEnt_Dif_AsErr	**True**
12 EntitiesType26 (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

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Parthistory Check / Redesingn (new 22.10.2013) JobMgr.Issue-1163

1

```
CheckBox.Data 1:[NX V6.0.2.8]                                    |CheckBox.Data 2:[NX V8.0.3.4]
-----------------------------------------------------------------|-----------------------------------------------------------------
CliName.:@DB/DMS-PATCH-HDV2-07022.MAMAA.BBK14/AA--/master/       |CliName.:@DB/DMS-PATCH-HDV2-07022.MAMAA.BBK14/AA--/master/
PartHis.:~                                                       |PartHis.:248 07 Aug 13 22:20 Linux x64 yao55ug NX 8.0.3.4 - External
PartHis.:~                                                       |PartHis.:247 07 Aug 13 21:35 Linux x64 yao55ug NX 8.0.3.4 (NX Manage
PartHis.:~                                                       |PartHis.:246 07 Aug 13 20:35 Linux x64 yao55ug NX 8.0.3.4 (NX Manage
PartHis.:245 11 May 13 14:23 Linux x64 yao55ug NX 6.0.2.8 - External~|PartHis.:245 07 Aug 13 19:35 Linux x64 yao55ug NX 8.0.3.4 (NX Manage
PartHis.:244 15 Feb 13 10:43 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:~
PartHis.:243 13 Feb 13 11:26 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:~
PartHis.:242 13 Feb 13 11:23 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:~
-----------------------------------------------------------------|-----------------------------------------------------------------
Data extraction info:                                            |Data extraction info:
NxVer...:NX V6.0[106.0]                                          |NxVer...:NX V8.0[108.0]
NxCB.Re~:V2.0.1.4 (NX 4-7) Build:(Mar 26 2013)                   |NxCB.Re~:V2.0.1.4 (NX 8) Build:(Mar 26 2013)
Date....:11.05.2013 14:23:22                                     |Date....:07.08.2013 20:20:18
=================================================================|=================================================================
```

2

```
CheckBox.Data 1:[NX V6.0.2.8]                                    |CheckBox.Data 2:[NX V8.0.3.4]
-----------------------------------------------------------------|-----------------------------------------------------------------
CliName.:@DB/DMS-PATCH-HDV2-07022.MAMAA.BBK14/AA--/master/       |CliName.:@DB/DMS-PATCH-HDV2-07022.MAMAA.BBK14/AA--/master/
PartHis.:~                                                       |PartHis.:259 07 Aug 13 20:20 Linux x64 yao55ug NX 8.0.3.4 - External ~
PartHis.:~                                                       |PartHis.:258 07 Aug 13 19:35 Linux x64 yao55ug NX 8.0.3.4 (NX Manager~
PartHis.:~                                                       |PartHis.:257 31 Jul 13 18:05 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:256 31 Jul 13 17:44 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:255 31 Jul 13 17:22 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:254 31 Jul 13 17:22 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:253 31 Jul 13 17:21 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:252 31 Jul 13 17:19 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:251 31 Jul 13 17:18 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:250 31 Jul 13 17:18 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:249 31 Jul 13 17:15 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:248 31 Jul 13 17:14 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:247 31 Jul 13 16:57 Linux x64 yax2202 NX 8.0.3.4
PartHis.:~                                                       |PartHis.:246 22 Jul 13 13:22 Linux x64 yax2202 NX 8.0.3.4
PartHis.:245 11 May 13 14:23 Linux x64 yao55ug NX 6.0.2.8 - External~|PartHis.:245 22 Jul 13 13:20 Linux x64 yax2202 NX 8.0.3.4
PartHis.:244 15 Feb 13 10:43 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:~
```

3

```
CheckBox.Data 1:[NX V6.0.2.8]                                    |CheckBox.Data 2:[NX V8.0.3.4]
-----------------------------------------------------------------|-----------------------------------------------------------------
CliName.:@DB/DMS-PATCH-HDV2-07022.MAMAA.BBK14/AA--/master/       |CliName.:@DB/DMS-PATCH-HDV2-07022.MAMAA.BBK14/AA--/master/
PartHis.:248 07 Aug 13 21:20 Linux x64 yao55ug NX 6.0.2.8 - External~|
PartHis.:247 11 May 13 15:23 Linux x64 yao55ug NX 6.0.2.8         |PartHis.:247 07 Aug 13 22:20 Linux x64 yao55ug NX 8.0.3.4 - External ~
PartHis.:246 11 May 13 14:23 Linux x64 yao55ug NX 6.0.2.8 <----> |PartHis.:246 07 Aug 13 21:35 Linux x64 yao55ug NX 8.0.3.4 (NX Manager~
PartHis.:245 11 May 13 13:23 Linux x64 yao55ug NX 6.0.2.8         |PartHis.:245 11 May 13 13:23 Linux x64 yao55ug NX 6.0.2.8
PartHis.:244 15 Feb 13 10:43 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:244 15 Feb 13 10:43 Linux x64 yax2202 NX 6.0.2.8
PartHis.:243 13 Feb 13 11:26 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:243 13 Feb 13 11:26 Linux x64 yax2202 NX 6.0.2.8
PartHis.:242 13 Feb 13 11:23 Linux x64 yax2202 NX 6.0.2.8         |PartHis.:242 13 Feb 13 11:23 Linux x64 yax2202 NX 6.0.2.8
-----------------------------------------------------------------|-----------------------------------------------------------------
```

Parthistory Regeln:
1 Standard: die Parthistory der älteren Version darf nicht höher sein als die der neueren Version
2 Extendet → Regel solange OK wie nur Refiles zwischendurch gemacht wurden !! Refile User soll berücksichtigt sein !!

Beispiel: NX6: 244 -- NX8: 247 → OK (1) da zwischenzeitlich nur refiles gemacht wurden
Beispiel: NX6: 244 -- NX8: 258 → ERR (2) da zwischenzeitlich ein save durch „nicht Refile“ mit Version NX8 gemacht wurde
Beispiel: NX6: 246 -- NX8: 246 → ERR (3) da zwischenzeitlich ein save durch „nicht Refile“ mit Version NX6 gemacht wurde

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Parthistory Check / Redesingn (new 22.10.2013) JobMgr.Issue-1163

- Analyse Date – Timestamp differnces of 0 min 60 min

1

```
CheckBox.Data 1:[NX V4.0.4.2]                                    |CheckBox.Data 2:[NX V8.0.3.4]
-----------------------------------------------------------------|-----------------------------------------------------------------
CliName.:@DB/041.231.104/C/master/                               |CliName.:@DB/041.231.104/C/master/
PartHis.:~                                                       |PartHis.:93 12 Nov 13 14:57 NT x64 infodba NX 8.0.3.4 - External User~
PartHis.:92 12 Nov 13 13:44 NT Intel infodba NX 4.0.4.2 - External U~|PartHis.:92 27 Jun 13 12:07 NT x64 infodba NX 8.0.3.4 (NX Manager ref~
PartHis.:91 16 Apr 13 03:33 NT Intel infodba NX 4.0.4.2 (        |is.:91 16 Apr 13 04:33 NT Intel infodba NX 4.0.4.2 (NX Manager r~
PartHis.:90 18 Apr 12 23:47 NT Intel nethh NX 4.0.4.2            |PartHis.:90 19 Apr 12 00:47 NT Intel nethh NX 4.0.4.2
PartHis.:89 20 Apr 12 10:33 NT Intel nethh NX 4.0.4.2            |PartHis.:89 20 Apr 12 11:33 NT Intel nethh NX 4.0.4.2
PartHis.:88 20 Apr 12 10:31 NT Intel nethh NX 4.0.4.2            |PartHis.:88 20 Apr 12 11:31 NT Intel nethh NX 4.0.4.2
PartHis.:87 02 Feb 09 17:00 NT Intel nethh NX 4.0.4.2            |PartHis.:87 02 Feb 09 17:00 NT Intel nethh NX 4.0.4.2
PartHis.:86 02 Feb 09 10:45 NT Intel sidlerc NX 4.0.4.2          |  His.:86 02 Feb 09 10:45 NT Intel sidlerc NX 4.0.4.2
-----------------------------------------------------------------|-----------------------------------------------------------------
```

1 Houre difference

0 min difference

Seealso WhatsNew:
ApplWhatsNew: 2.1200;13.11.2013;J.Fes;CheckBox;Ver.Info;JobMgr.Issue-1163;Change:

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Section: Model Data MD

01 Part Header (PH)

02 Model Data (MD):

03 Assembly Data (AS)

04 Drawaing Data (DR)

11 Entities Type25 (Uf_draft) (EN25)

12 Entities Type26 (UF_dimensions) (EN26)

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Model Data: New section PrototypeAnalysis / SolidBodys / (New 08.03.2013)

Die Sektion PrototypAnalyse soll dazu dienen die SolidBodys des Parts zu Analysieren. Insbesondere soll festgestellt werden ob die 3D Form der in dem Part befindlichen Bodys sich verändert. Überprüft werden kann das auf Basis des Volumens des Schwerpunktes sowie des Massenträgheits Momentes aller sich im Part befindlichen Bodys. Um diese Datensektion unter allen Umständen vergleichen zu können, ist es Notwendig die Daten für CenterOfGravity und MomentsOfInertial mit Density=1 bewerte zu ermitteln.
Die unten stehenden Datenstrukturen beinhalten die Informationen der „SolidBodys“ des aktuellen Parts (=ProtoType).

```
<PrototypeAnalyse>
 <Volume>1000.000000</Volume>
 <VolumeBodies_n>1</VolumeBodies_n>
 <CentreOfGravity>
  <X>6.000000</X>
  <Y>15.666667</Y>
  <Z>5.000000</Z>
 </CentreOfGravity>
 <MomentOfInertia>
  <X>200000.000000</X>
  <Y>200000.000000</Y>
  <Z>600000.000000</Z>
 </MomentOfInertia>
 <CentreOfGravityN1>
  <X>5.000000</X>
  <Y>11.666667</Y>
  <Z>5.000000</Z>
 </CentreOfGravityN1>
 <MomentOfInertiaN1>
  <X>600000.000000</X>
  <Y>200000.000000</Y>
  <Z>600000.000000</Z>
 </MomentOfInertiaN1>
</PrototypeAnalyse>
```

Volume + Body Informationen

CenterOfGravity / MomentOfInertia berechnet mit den Density der Bodys

CenterOfGravityN1 / MomentOfInertiaN1 berechnet mit Density = 1

Hinweis diese Daten für **CenterOfGravityN1 / MomentOfInertiaN1** werden nur dann ermittelt wenn die Umgebungsvariable NXCB_ANALYZE_NORMALIZED_MASS_PROPS=TRUE gesetzt wurde und der Schalter –save **!! NICHT !!** verwendet wird.

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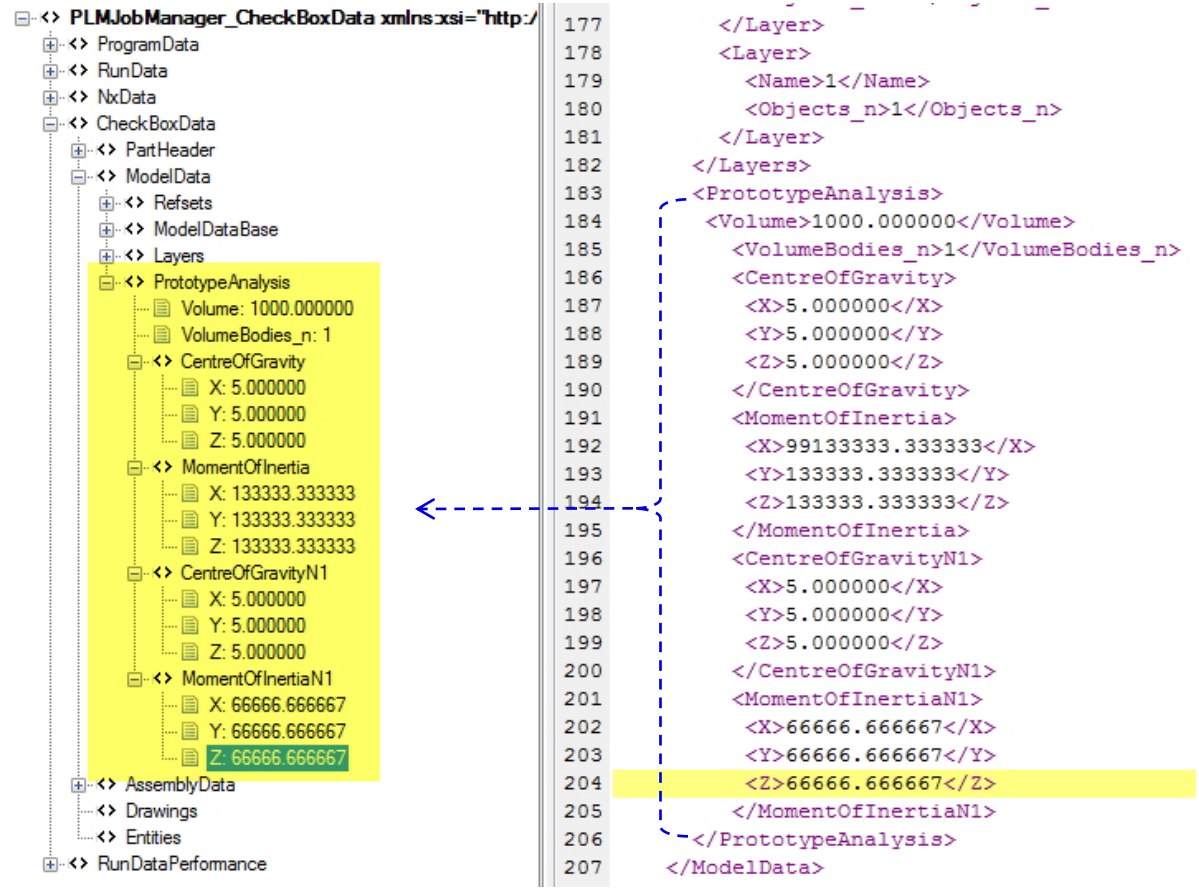
Model Data: New section PrototypeAnalysis / ModelBodys / (New 08.03.2013)

Doku Beispiel Daten PrototypeAnalyse-2013-03-10.xml



Hinweis diese Daten für **CenterOfGravityN1 / MomentOfInertiaN1** werden nur dann ermittelt wenn die Umgebungsvariable NXCB_ANALYZE_NORMALIZED_MASS_PROPS=TRUE gesetzt wurde und der Schalter –save **!! NICHT !!** verwendet wird.

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Model Data: Comparing Moment Of Inertial

1.. 063.254.060_C_master_063.254.060_C_#NX40.xml | 2.. 063.254.060

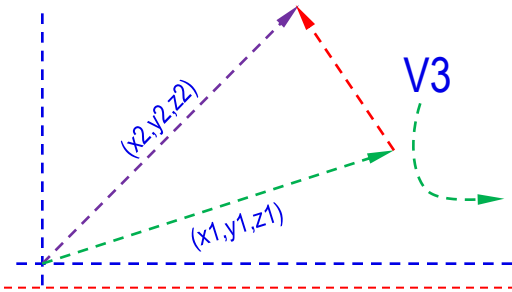
```
2543      <PrototypeAnalysis>
2544       <Volume>66.154073</Volume>
2545         <VolumeBodies_n>2</VolumeBodies_n>
2546         <CentreOfGravity>
2547          <X>7.962376</X>
2548          <Y>-0.477634</Y>
2549          <Z>-0.035367</Z>
2550         </CentreOfGravity>
2551         <MomentOfInertia>
2552          <X>725.038237</X>
2553          <Y>107310.208076</Y>
2554          <Z>107917.626759</Z>
2555         </MomentOfInertia>
2556         <CentreOfGravityN1>
2557          <X>7.962376</X>
2558          <Y>-0.477634</Y>
2559          <Z>-0.035367</Z>
2560         </CentreOfGravityN1>
2561         <MomentOfInertiaN1>
2562          <X>92.361559</X>
2563          <Y>13670.090201</Y>
2564          <Z>13747.468377</Z>
2565         </MomentOfInertiaN1>
2566      </PrototypeAnalysis>
```

1.. 063.254.060_C_master_063.254.060_C_#NX80.xml | 2.. 063.254.060_

```
2544      <PrototypeAnalysis>
2545       <Volume>66.153643</Volume>
2546         <VolumeBodies_n>2</VolumeBodies_n>
2547         <CentreOfGravity>
2548          <X>7.962274</X>
2549          <Y>-0.477724</Y>
2550          <Z>-0.035367</Z>
2551         </CentreOfGravity>
2552         <MomentOfInertia>
2553          <X>725.453765</X>
2554          <Y>107308.159678</Y>
2555          <Z>107915.993818</Z>
2556         </MomentOfInertia>
2557         <CentreOfGravityN1>
2558          <X>7.962274</X>
2559          <Y>-0.477724</Y>
2560          <Z>-0.035367</Z>
2561         </CentreOfGravityN1>
2562         <MomentOfInertiaN1>
2563          <X>92.414492</X>
2564          <Y>13669.829258</Y>
2565          <Z>13747.260359</Z>
2566         </MomentOfInertiaN1>
2567      </PrototypeAnalysis>
```

Quantifizierung der Abweichung:
Siehe nächste Seite

02 Model Data [MD]	
SolidBodiesCheck_Methode	M1_PartSoli
Volume_DeviationMax	0,001
CentreOfGravity_DeviationMax	0,001
Moment Of Inertia Result Rules	(Auflistung)



$$V3(länge) = \sqrt{(x1-x2)^2+(y1-y2)^2+(z1-z2)^2} <= 0{,}05$$

Ist die ermittelte Vektorlänge V3<=0,05 so kann davon ausgegangen werden das die Körper gleich sind.
Diese Vergleichsmethode wurde von Herrn Dipl.Mat Hakim Asim erarbeitet . Vielen Dank für die unterstützung.

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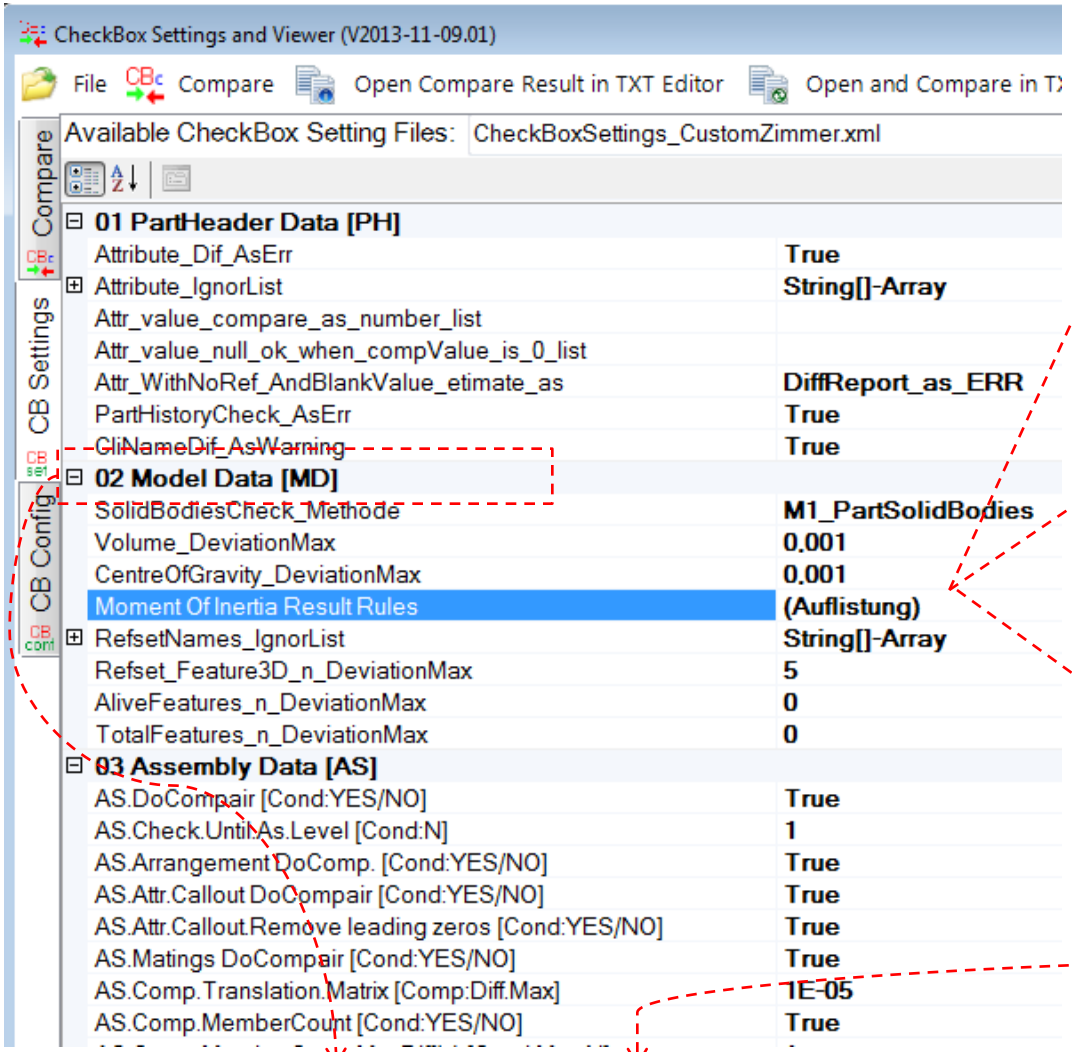
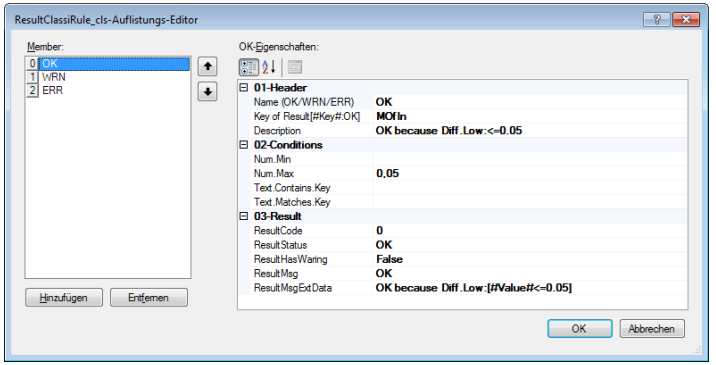
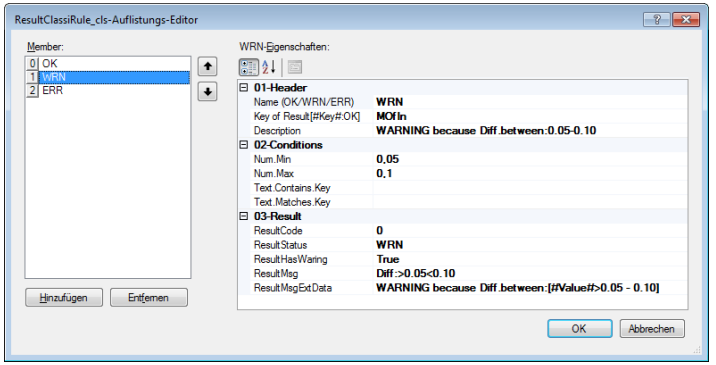
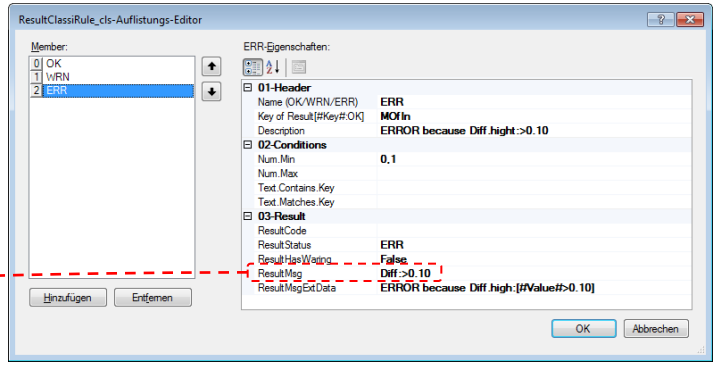
Model Data: Comparing Moment Of Inertial

- Standard settings for comparing Moment of Inertial









P.Res.Msg.....: [PH:OK][**MD**:ERR:SolBod.MOfInN1.**Diff:>0.10**,SolBod.Vol,SuppFeat_n,WRN:SolBod.MOfIn.Diff:>0.10][AS:OK][DR:OK][EN25:OK][EN26:OK][DC:Tif:No.CGM][PI:OK]

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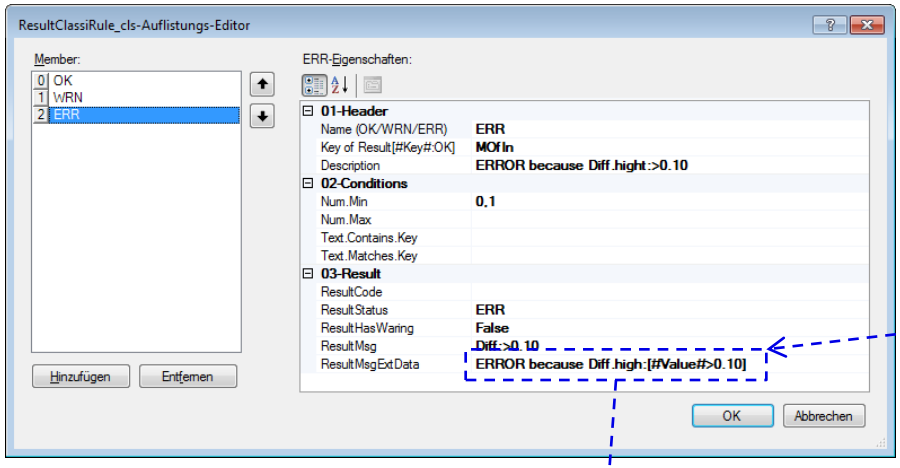
Model Data: Comparing Moment Of Inertial

- Defining Rules and View of CB Report in CB Manager



#Value# is replaced by the calculated value

```
++Error:MD.........: [SolidBodies.MomentOfInertiaN1 (!!--serious diff.--!! because Value is Normalized with Density=1)] Val.Dif:[Diff:>0.10]
 |-> Tce9/NX4.0.4.~: X:[22644.962001] Y:[111517.609812] Z:[98002.678204]
 |-> Tc83/NX8.0.3.~: X:[22644.989709] Y:[111517.750361] Z:[98002.802145]
 |-> Differnce.....: ERROR because Diff.high:[0.189428>0.10]
                     3D Dist:0.189428 of P1:[X:[22644.962001] Y:[111517.609812] Z:[98002.678204]] <-> P2:[X:[22644.989709] Y:[111517.750361] Z:[98002.802145]]
```

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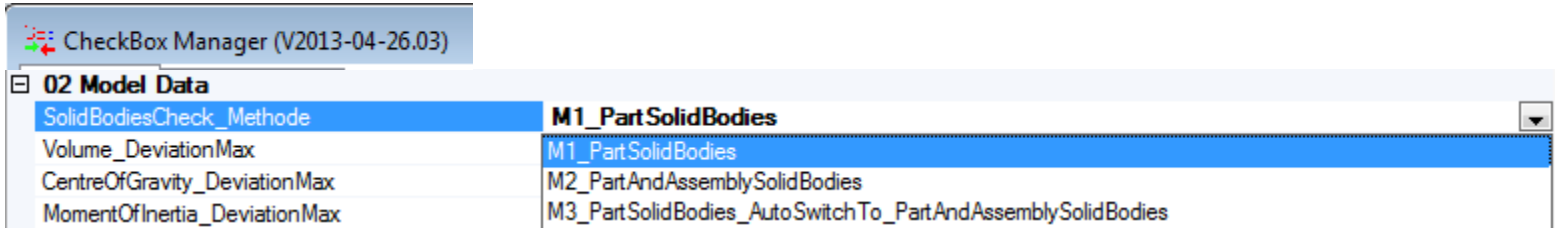
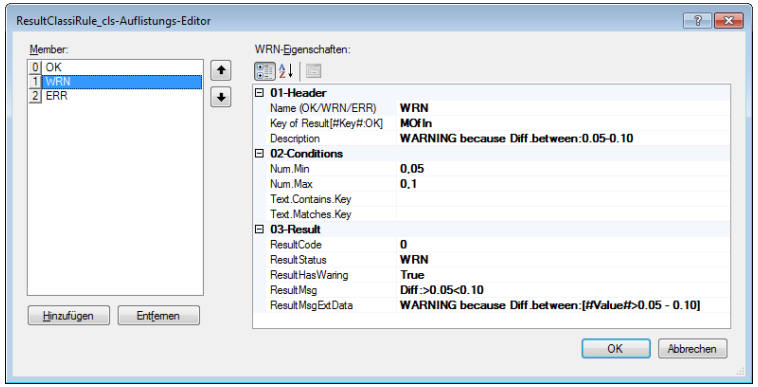
ModelData: Comparing Moment Of Inertial Settings

Einstellungen: Siehe Einstellungen:



SolidBodiesCheck_Methode
Defines validation methode for analysing '3D Geometrical Massproperties' consitensy
#Doc: if using Methode: 'M1_PartSolidBodies' then Part SolidBodys is used for analysing 3D Body consistensy (see: CB.XML:CheckBoxData.ModelData.PrototypeAnalysis). [Default]
#Doc: if using Methode: 'M2_PartAndAssemblySolidBodies' then Part SolidBodys and Assemblys SolidBodys is used for analysing 3D Body consistensy. (see: CB.XML:CheckBoxData.ModelData.Refsets)
#Doc: if using Methode: 'M3_PartSolidBodies_AutoSwitchTo_PartAndAssemblySolidBodies' first use 'M1_PartSolidBodies' Methode. If no 'PrototypeAnalysis' Data found then use 'M2_PartAndAssemblySolidBodies' Methode (#Hint: this Option is desinged to analyse Data extraced bevor:25.03.2013)
(New: 2.1195;08.03.2013;J.Fes)



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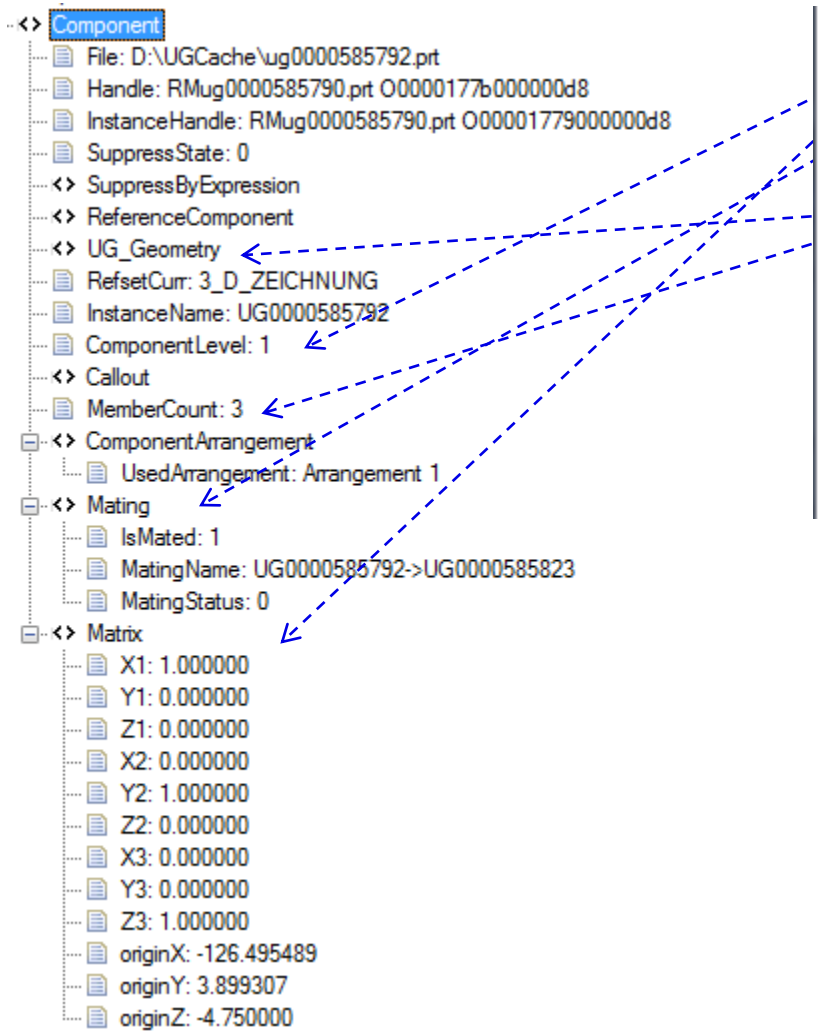
Die Funktionen der Check-Box: „Überprüfung von Baugruppen“ Settings



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	True
UG_GeometryNO_DoCompare	True
MemberCount_DoCompare	True
MemberCountDeviationMax	1
MemberCount_Dif_AsErr	False

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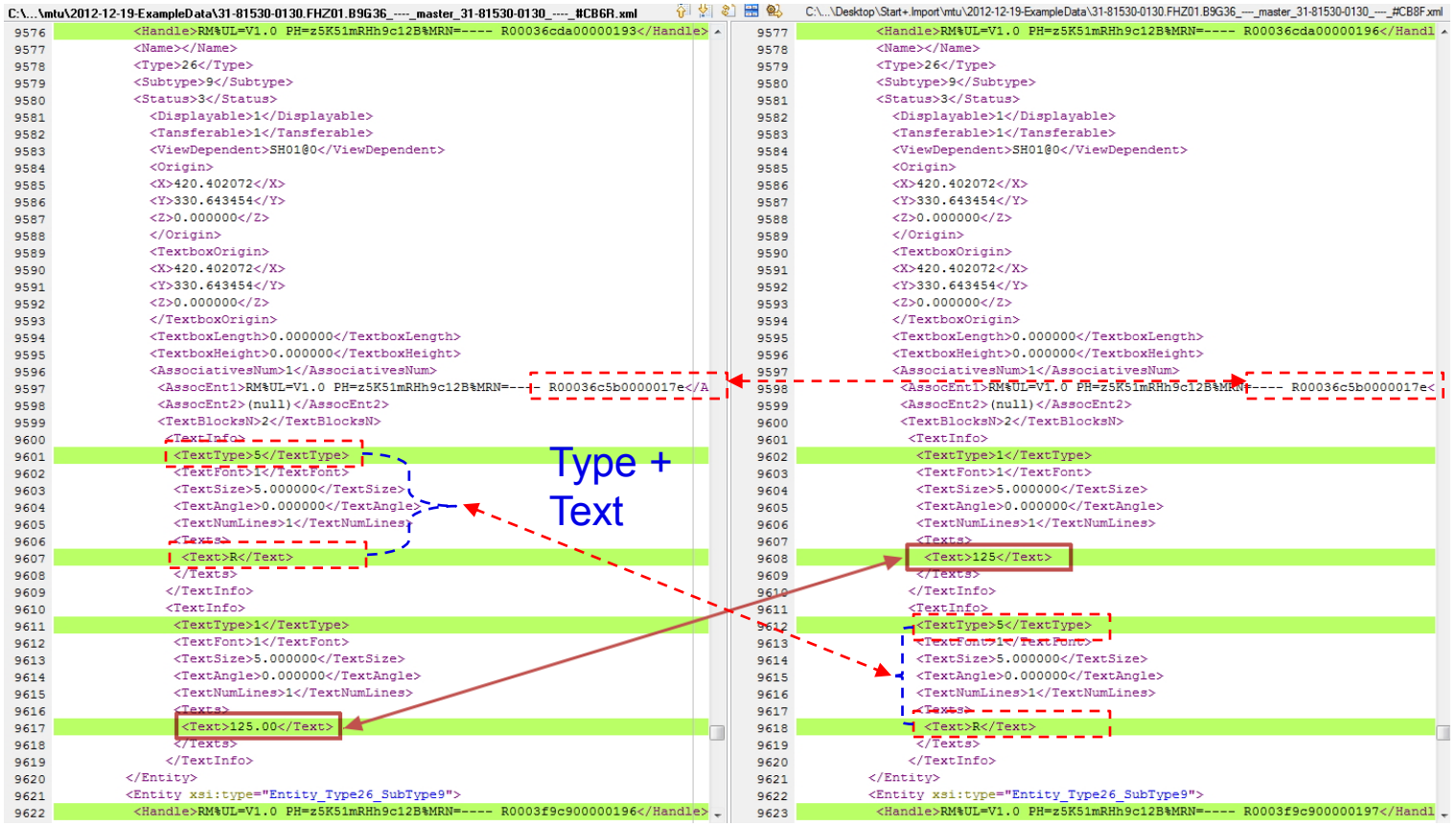
Dokumentation Objekte: Text Compair of Entity 25 (Drafting) / 26 (Dimension)

Daten Auszug:



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

Neu 23.01.2013 J.Fes

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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:

```
2945        </Entity>
2946        <Entity xsi:type="Entity_Type26_SubType5">
2947         <Handle>RM%UL=V1.0 PH=DtBl7Xywh9c12B%MRN=AA-- R0006f77500000101</
2948         <Name></Name>
2949         <Type>26</Type>
2950         <Subtype>5</Subtype>
2951         <Status>2</Status>
2952           <Displayable>1</Displayable>
2953           <Tansferable>1</Tansferable>
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=DtBl7Xywh9c12B%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>
```

```
2940        </Entity>
2941        <Entity xsi:type="Entity_Type26_SubType5">
2942         <Handle>RM%UL=V1.0 PH=DtBl7Xywh9c12B%MRN=AA-- R0006f77500000101<
2943         <Name></Name>
2944         <Type>26</Type>
2945         <Subtype>5</Subtype>
2946         <Status>2</Status>
2947           <Displayable>1</Displayable>
2948           <Tansferable>1</Tansferable>
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=DtBl7Xywh9c12B%MRN=AA-- R0006f76c000
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>
```

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

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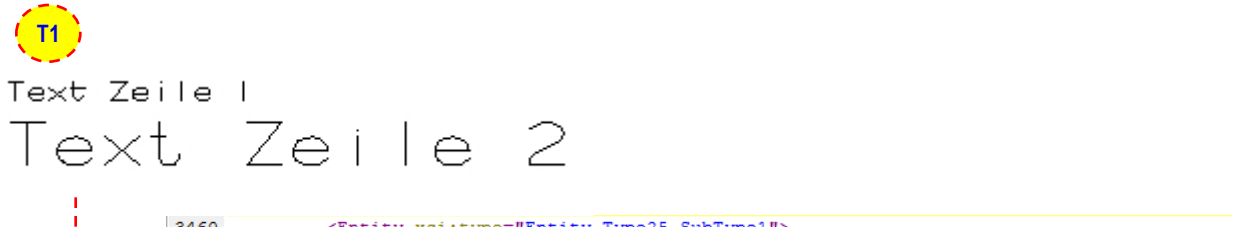
Text Type assignment Entity_Type25 // UF_drafting




```
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           <Tansferable>1</Tansferable>
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</Te      pe>
3485              <TextFont>1</T      t>
3486              <TextSize>3.5000      </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

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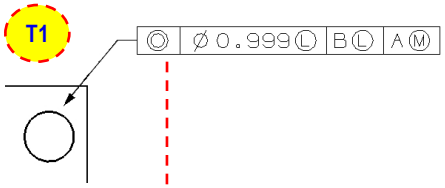
Text Type assignment Entity_Type25 // UF_drafting




```
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           <Tansferable>1</Tansferable>
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;+&gt;&lt;&#38;11&gt;&lt;+&gt;&lt;O&gt;0.999&lt
5130              </Texts>
5131             </TextInfo>
5132        </Entity>
```

T1

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
```

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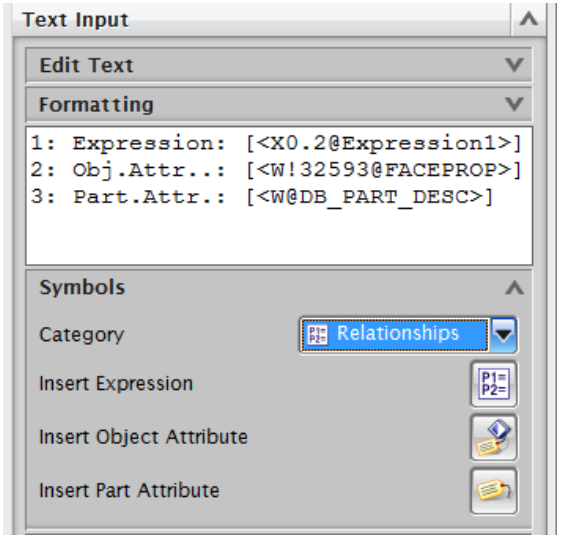
Text Examples containing relationships to: Expression // Obj.Attr // Part.Attr.

Out Parsing

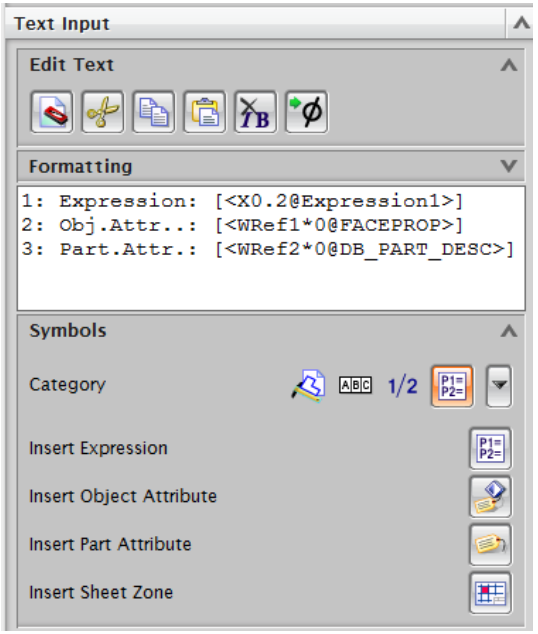
```
Format until NX 7.5:
1: Expression: [<X0.2@Expression1>]
2: Obj.Attr..: [<W!32586@FACEPROP>]
3: Part.Attr.: [<W@DB_PART_DESC>]
```

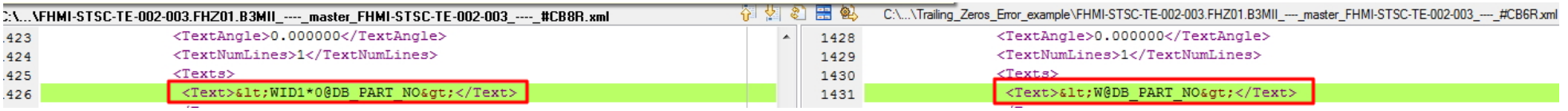
```
Format starting NX 8.0
1: Expression: [<X0.2@Expression1>]
2: Obj.Attr..: [<WRef1*0@FACEPROP>]
3: Part.Attr.: [<WRef2*0@DB_PART_DESC>]
```



Display on Drawing:

```
1: Expression: (100.00)
2: Obj.Attr..: (Value Face Property)
3: Part.Attr.: (CB Example)
```





#New: 01.03.2013 J.Fes

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Auswertung Texte mit Releationen <WID1*0@?VWLETTER> #New: 12.04.2013

Auswertung:

```
++Error:EN25.......: [Text Values changed.] Val.Dif:[Is not equal]
 |-> Object........: Type:[25] Subtype:[1] Desc:[UF_draft_note_subtype] Name:[] Handle:[RM%UL=V1.0 PH=gA0swqYTAuf0aA AUID=w5dFTuyPAuf0aA R000006c800000070]
 |                   Origin....:[X:[122,116439] Y:[67,186431] Z:[0,000000] ]
 |                   Location..:[Sheet:DRAW1@0]
 |                   Text.Value:[TextInfo-1:(Texts:['Schnitt <C1.4286><W!11846@VWLETTER>-<W!11846@VWLETTER>']/Type:[1]/Font:[2]/Size:[3,5]/Angle:[,00 degree])]
 |-> NX V4.0.4.2...: Original Text:['Schnitt <C1.4286><W!11846@VWLETTER>-<W!11846@VWLETTER>'] -> */* Entire Texts:['Schnitt <C1.4286><W!11846@VWLETTER>-<W!11846@VWLETTER>']
 |-> NX V8.0.3.4...: Original Text:['Schnitt <C1.4286><WID1*0@?VWLETTER>']                    -> */* Entire Texts:['Schnitt <C1.4286><WID1*0@VWLETTER>']
```

Tritt eine Textrelation mit @? Auf so ist das als kritisch zu werten da es ein Hinweis auf verlorengegangene Relationen ist. <WID1*0@?VWLETTER>

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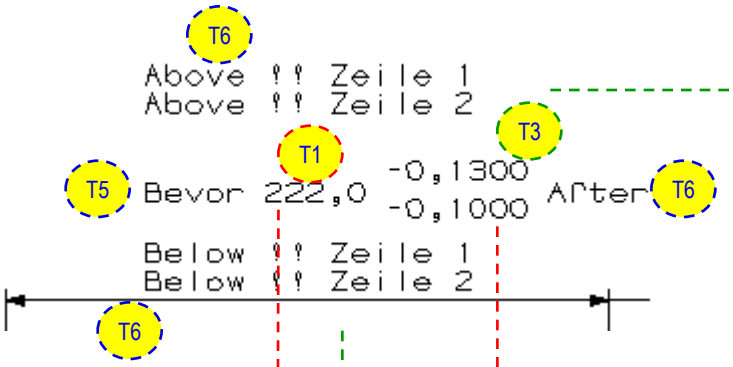
Text Type assignment Entity_Type26 // UF_dim*




```
5831        <Entity xsi:type="Entity_Type26_SubType1">
5832         <Handle>RMBgStrukEx-Einzelteil-04_dwg1.prt R0000b3c30
5833         <Name></Name>
5834         <Type>26</Type>
5835         <Subtype>1</Subtype>
5836         <Status>3</Status>
5948                 </Texts>
5949                </TextInfo>
5950                <TextInfo>
5951  Typ6           <TextType>6</TextType>
5952                 <TextFont>1</TextFont>
5953                 <TextSize>3.500000</TextSize>
5954                 <TextAngle>0.000000</TextAngle>
5955                 <TextNumLines>3</TextNumLines>
5956                 <Texts>
5957                  <Text>Above !! Zeile 1</Text>
5958                  <Text>Above !! Zeile 2</Text>
5959                  <Text></Text>
5960                 </Texts>
5961                </TextInfo>
5962                <TextInfo>
5963  Typ6           <TextType>6</TextType>
5964                 <TextFont>1</TextFont>
5965                 <TextSize>3.500000</TextSize>
5966                 <TextAngle>0.000000</TextAngle>
5967                 <TextNumLines>2</TextNumLines>
5968                 <Texts>
5969                  <Text>Below !! Zeile 1</Text>
5970                  <Text>Below !! Zeile 2</Text>
5971                 </Texts>
5972                </TextInfo>
5973                <TextInfo>
5974  Typ1 Dim       <TextType>1</TextType>
5975                 <TextFont>1</TextFont>
5976                 <TextSize>3.500000</TextSize>
5977                 <TextAngle>0.000000</TextAngle>
5978                 <TextNumLines>1</TextNumLines>
5979                 <Texts>
5980                  <Text>222,0</Text>
5981                 </Texts>
5982                </TextInfo>
5983                <TextInfo>
5984  Typ3 Tol       <TextType>3</TextType>
5985                 <TextFont>1</TextFont>
5986                 <TextSize>3.500000</TextSize>
5987                 <TextAngle>0.000000</TextAngle>
5988                 <TextNumLines>1</TextNumLines>
5989                 <Texts>
5990                  <Text>&lt;T-0,1300!-0,1000&gt;</Text>
5991                 </Texts>
```

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

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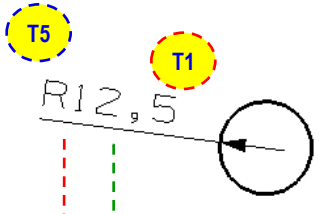
Text Type assignment Entity_Type26 // UF_dim*




```
5783          <Entity xsi:type="Entity_Type26_SubType9">
5784           <Handle>RMBgStrukEx-Einzelteil-04_dwg1.prt R0000aaeb0000002b</Handle>
5785           <Name></Name>
5786           <Type>26</Type>
5787           <Subtype>9</Subtype>
5788           <Status>3</Status>
5789             <Displayable>1</Displayable>
5790             <Tansferable>1</Tansferable>
5791             <ViewDependent>Sheet 1@0</ViewDependent>
5792             <Origin>
5793             <X>244.080546</X>
5794             <Y>241.332898</Y>
5795             <Z>0.000000</Z>
5796             </Origin>
5797             <TextboxOrigin>
5798             <X>244.080546</X>
5799             <Y>241.332898</Y>
5800             <Z>0.000000</Z>
5801             </TextboxOrigin>
5802             <TextboxLength>0.000000</TextboxLength>
5803             <TextboxHeight>0.000000</TextboxHeight>
5804             <AssociativesNum>1</AssociativesNum>
5805              <AssocEnt1>RMBgStrukEx-Einzelteil-04_dwg1.prt O0000030b00000022</AssocEnt1>
5806              <AssocEnt2>(null)</AssocEnt2>
5807              <TextBlocksN>2</TextBlocksN>
5808               <TextInfo>
5809                <TextType>1</TextType>
5810                <TextFont>1</TextFont>
5811                <TextSize>3.500000</TextSize>
5812                <TextAngle>0.561993</TextAngle>
5813                <TextNumLines>1</TextNumLines>
5814                <Texts>
5815                 <Text>12,5</Text>
5816                </Texts>
5817               </TextInfo>
5818               <TextInfo>
5819                <TextType>5</TextType>
5820                <TextFont>1</TextFont>
5821                <TextSize>3.500000</TextSize>
5822                <TextAngle>0.561993</TextAngle>
5823                <TextNumLines>1</TextNumLines>
5824                <Texts>
5825                 <Text>R</Text>
5826                </Texts>
5827               </TextInfo>
5828          </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
```

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

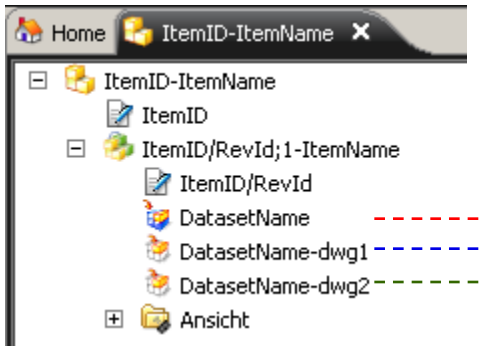
Neu 18.8.2012

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

Es gelten die folgenden Syntaxregeln:

Verzeichnis : .\CBData\#TcSiteId#\#ItemId:5#\#ItemId#\#RevId#\
TC.Dataset.. : @DB/ItemId/RevId/Datasetype/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\#TcSiteId#**#ItemId:n.chars# gesteuert werden Option in Script CheckBox_CustomStart.cmd eintr.**

Daten in TC

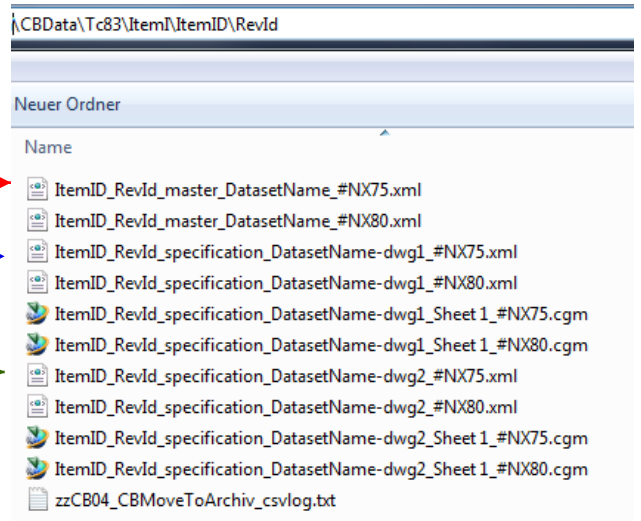


Daten im JobMgr

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



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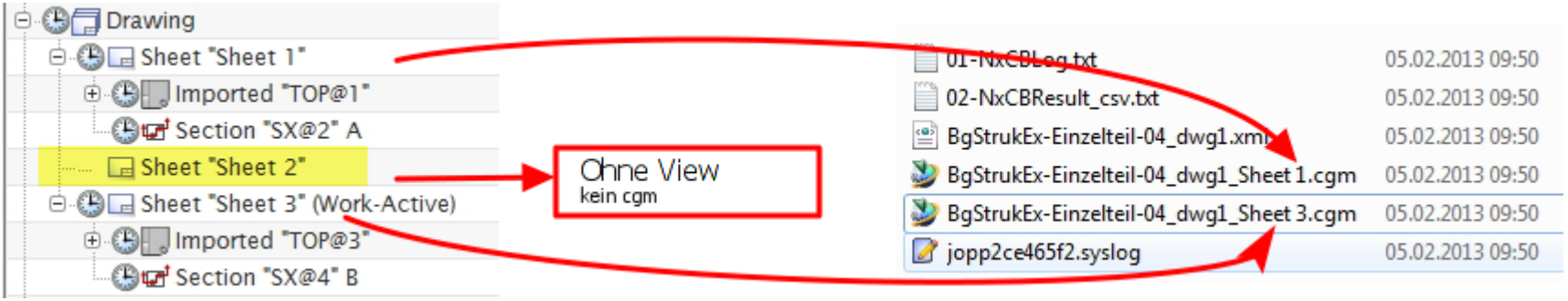
CGM File Erzeugung (5.2.2013)



Steuerung erfolgt über den Parameter -Sheet=_ALL_,_with_view_

```
-Sheet=_All_,_with_view_  -> bewirkt dass alle Zeichnungen mit views verarbeitet werden.
                             Sind in einer Zeichnung keine Views vorhanden,
                             dann wird diese Zeichnung übersprungen.
-Sheet=_All_              -> verarbeitet alle Zeichnungen
-Sheet=Z1                 -> verarbeitet nur Zeichnungen mit Namen Z1
-Sheet=Z                  -> nimmt alle Zeichnung die ein Z im Namen enthalten
```

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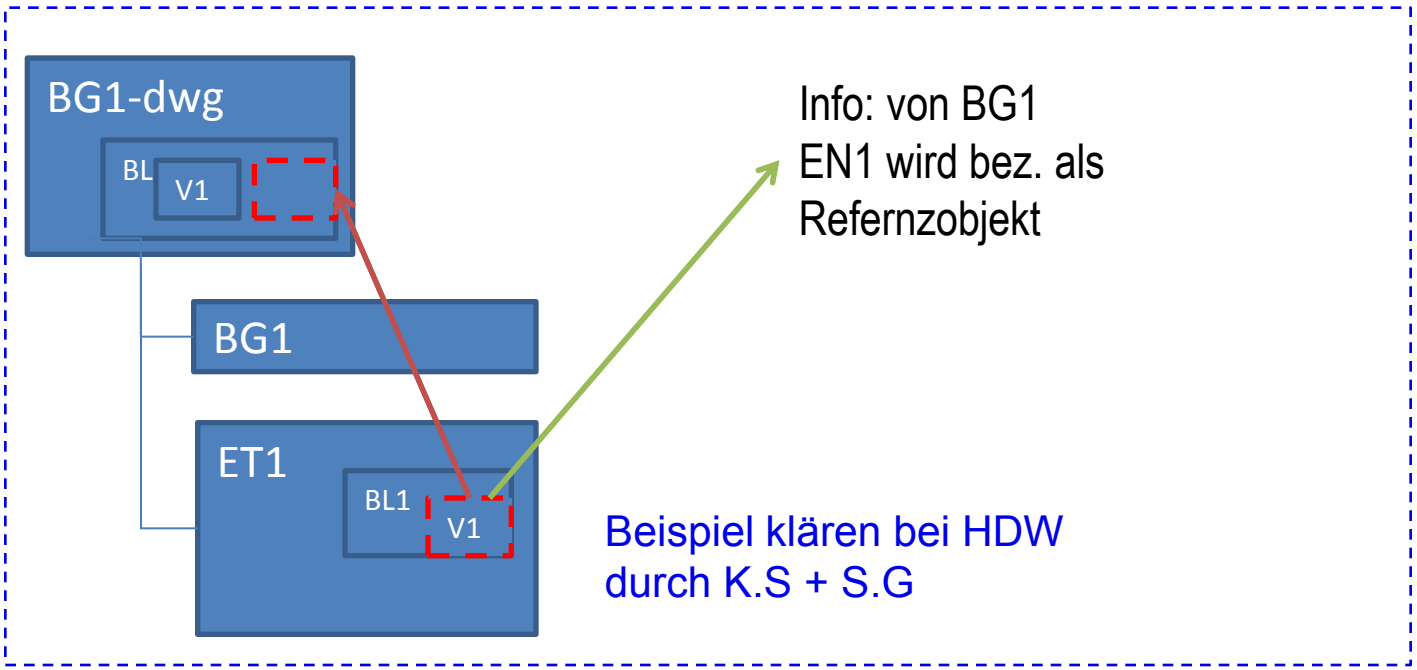
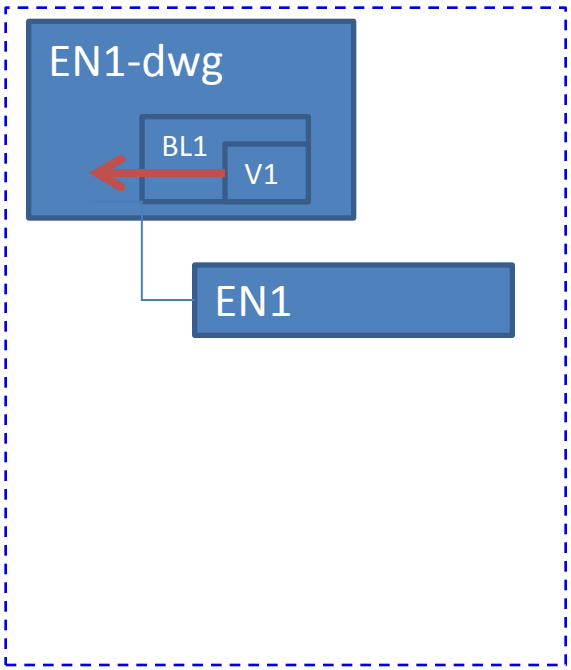
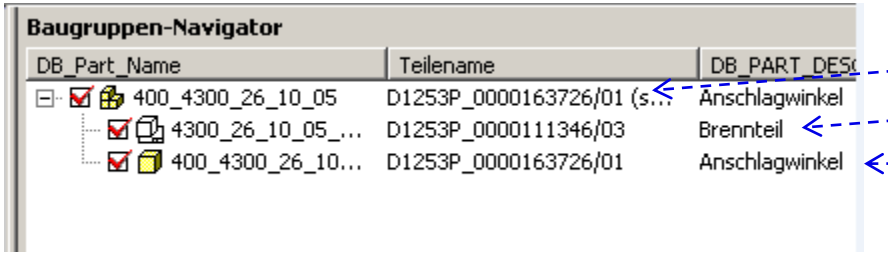
Referenz Views - Ansicht (7.2.2013)





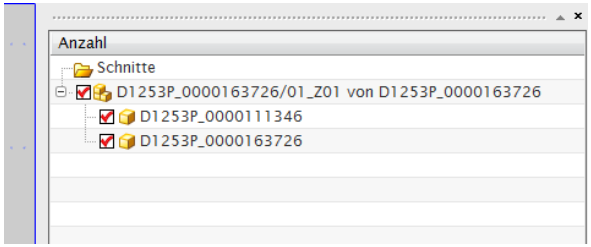
Einzelteil mit Master/Model

NX4 Ansicht (ANT)



UGPART = Spec
View aus einer Datei
UGAMSTER

NX8 Ansicht (ANT)



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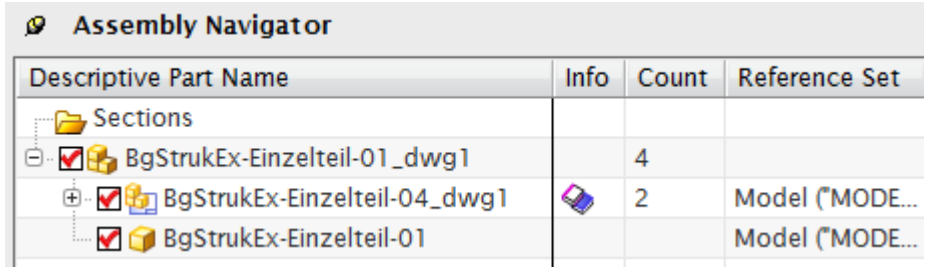
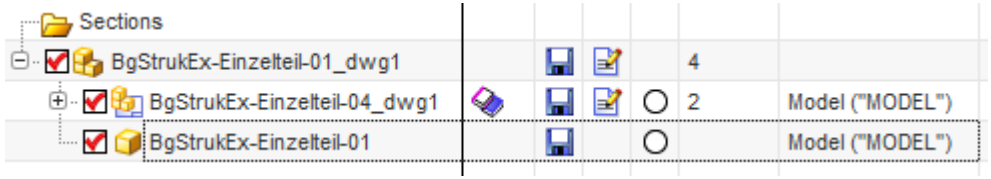
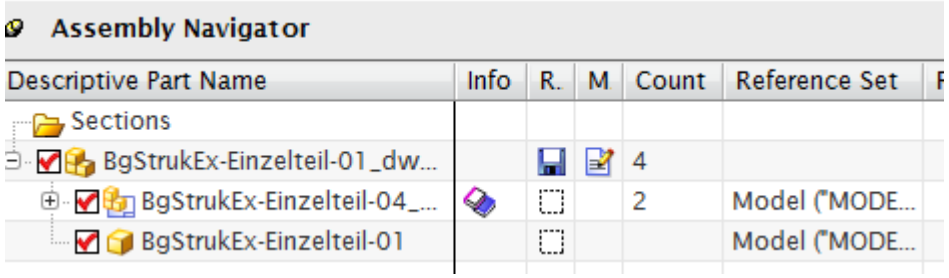
Referenz Views - Ansicht (10.02.2013)

NX7.5 Ansicht (ANT)



NX8.0 Ansicht (ANT)



NX8.5 Ansicht (ANT)