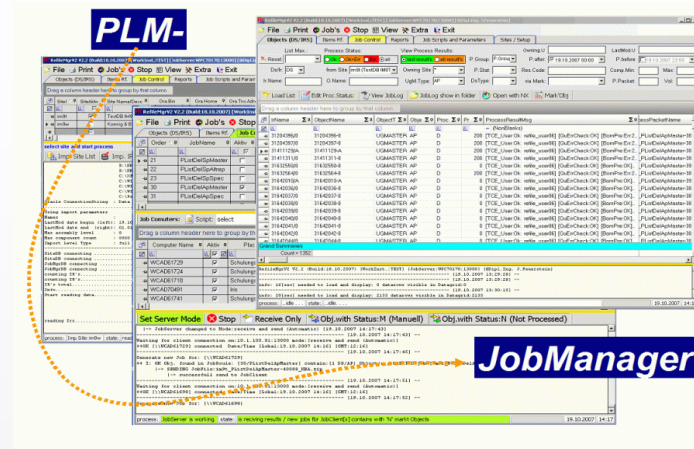




Documentation: TC Data Quality Check

Created by : J.Fes / S.Gueth
Creation Date : 18.02.2016
Last Update : 12.11.2018 J.Fes
With support of : BSH.: Mr. Krzysztof Duszkiewicz
: ASML: Mr. Jos Dierkeling

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

Methods for Analyse MultiSite Data Migration and Consistent Check

PLMJobManager provides 3 Methods for Multisite-Data checks and MultiSite Migrations

1 List Objects that need to be transfer or updated from 'Source Site' to 'Target Site'

f.Site: S1 (Site to Migrate) Own.Site: * (all Sites) ☐ S+R ☒ SO ☐ RO ☒

This Method can be used to get a list of all Objects that need to be transfer or Updated from 'Source Site' into 'Target Site'

2 MultiSite Consistent Check (MCC)

This Method can be used to check the Data Consistent between TC Sites.
It analyses the existing Multisite - Data via Check Rules.

3 MultiSite Completeness Analyse (MCA)

This analyse checks if transferred Objects from 'Source Site' to 'Target Site' is complete transferred.

It is used to **review** the current 'TC-MultiSite Data-Quality' between Sites
It is used to **check the result** of DataShare process during MultiSite migration phase.

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

MultiSite Consistent Check

List of Check Rules

Status	Check	Naming in JobMgr
1.0	ItemID/ItemPuid Owings Site consistency	ItemId/ItemPuid incon.
1.2	Item Type inconsistency	Item Type incon.
2.0	Owning Site has Export Record inconsistency	Owning Site has Export Record incon.
2.1	if no item exists with same ItemID and same ItemPUID on every site	ItemID/ItemPUID not consist on all Sites
3.0	if all Items with same ItemID and same ItemPUID exists on each exportedTo Site	exportedTo and Ownings Sites are inconsistent
4.0	if all itemRevIDs from Owning Site Item exists on each exported site with the same puid and the same itemRevID	itemRevIDs not consist on all Sites
4.1	ItemRev Release Status consistent	ItemRev Release Status are inconsistent

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

Multi-Site Consistent Check: Check Rules

Check (1) Item Owings Site consistent

- Checks if the processed Item has one owning site object
- And if there are no other items with the same ItemID and an other Item-PUID
- And if there are no other items with an other ItemID and the same Item-PUID

Example for [TRUE]: → goto Check (2)

ItemId	PuiD	fSiteID	oSiteId	exportToSiteIds
01	P01	VDH	VDH	SAN;WLT
01	P01	SAN	VDH	
01	P01	WLT	VDH	

SiteObject Item
does not exist

Example for [FALSE]: → Mark Item as OutOfSync + local created in ACE

ItemId	PuiD	fSiteID	oSiteId	exportToSiteIds
01	P01	VDH	VDH	SAN;WLT
01	P01	SAN	VDH	
01	P01	WLT	VDH	
01	P02	ACE	ACE	

Item with same ItemID
and other PUID exists

Example for [FALSE]: → Mark Item as OutOfSync because Object is missing in Owning Site

ItemId	PuiD	fSiteID	oSiteId	exportToSiteIds
01	P01	SAN	VDH	
01	P01	WLT	VDH	
01	Ü01	ACE	VDH	

Example for [FALSE]: → Mark Item as OutOfSync because Object is renamed (diff ItemID) in Owning Site

ItemId	PuiD	fSiteID	oSiteId	exportToSiteIds
02	P01	VDH	VDH	SAN;WLT;ACE
01	P01	SAN	VDH	
01	P01	WLT	VDH	
01	P01	ACE	VDH	

Multi-Site Consistent Check: Check Rules

Check (1.2) ItemType consists

→ Checks if all Items on each site have the same ItemType

Example for [TRUE]: → goto Check (2)

ItemId	PuID	fSiteID	oSiteID	ItemType
01	01	VDH	VDH	Item
01	01	SAN	VDH	Item
01	01	WLT	VDH	Item

Example for [FALSE]: → Mark Item as OutOfSync 1.2

ItemId	PuID	fSiteID	oSiteID	ItemType
01	01	VDH	VDH	Item
01	01	SAN	VDH	Item
01	01	WLT	VDH	CATIA

Item Types are different

Multi-Site Consistent Check: Check Rules

Check (2) if Owning Site has Export Record

Example for [YES]: → goto Check (3)

ItemId	PuiD	fSiteID	oSiteId	exportToSiteIds
01	01	VDH	VDH	SAN:WLT
01	01	SAN	VDH	
01	01	WLT	VDH	

Example for [NO]: → goto Check (2.1)

ItemId	PuiD	fSiteID	oSiteId	exportToSiteIds
01	01	VDH	VDH	
01	01	SAN	VDH	
01	01	WLT	VDH	
01	01	ACE	VDH	

SiteObject has no
ExportRecord

Multi-Site Consistent Check: Check Rules

Check (2.1) if no item exists with same ItemID and same ItemPUID on every site
→ this check only appears when check(2) was [NO]

Example for [TRUE]: → Mark Item as candidate

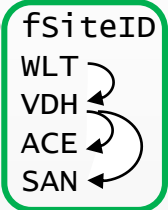
ItemId	Puid	fSiteID	oSiteId	exportToSiteIds
01	01	VDH	VDH	

Multi-Site Consistent Check: Check Rules

Check (3) if all Items with same ItemID and same ItemPUID exists on each exportedTo Site

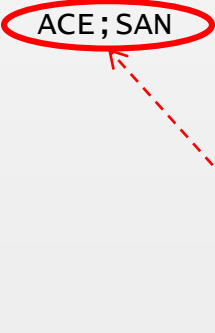
Example for [TRUE]: → goto Check (4)

ItemId	Puid	fSiteID	oSiteId	exportToSiteIds
01	01	WLT	WLT	VHD
01	01	VDH	WLT	ACE;SAN → is HubSite
01	01	ACE	VDH	
01	01	SAN	VDH	



Example for [FALSE]: → Mark Item as OutOfSync

ItemId	Puid	fSiteID	oSiteId	exportToSiteIds
01	01	WLT	WLT	VHD
01	01	VDH	WLT	ACE;SAN
01	01	SAN	VDH	



Item from Site ACE
is missing

Multi-Site Consistent Check: Check Rules

Check (4) if all itemRevs from Owning Site Item exists on each exported site with the same PUID and the same itemRevID

Example for [TRUE]: → goto Check 4.1

ItemRevId	ItemRevPuid	fSiteID	oSiteId	exportToSiteIds
01/01	012	VDH	VDH	WLT
01/02	023	VDH	VDH	WLT
01/01	012	WLT	VDH	
01/02	023	WLT	VDH	

Example for [FALSE]: → Mark Item as OutOfSync

ItemRevId	ItemRevPuid	fSiteID	oSiteId	exportToSiteIds
01/01	012	WLT	WLT	VDH
01/02	023	WLT	WLT	VDH
01/01	012	VDH	WLT	SAN
01/02	023	VDH	WLT	SAN
01/01	012	SAN	VDH	

ItemRev 01/02 is missing in SAN

Multi-Site Consistent Check: Check Rules

Check (4.1) if all itemRevs from each site have the same Release Status

Example for [TRUE]: → Mark Item as candidate

ItemRevId	ItemRevPuiD	fSiteID	oSiteId	release state
01/01	012	VDH	VDH	released
01/02	023	VDH	VDH	
01/01	012	WLT	VDH	released
01/02	023	WLT	VDH	

Example for [FALSE]: → Mark Item as OutOfSync

ItemRevId	ItemRevPuiD	fSiteID	oSiteId	release state
01/01	012	WLT	WLT	released
01/02	023	WLT	WLT	
01/01	012	VDH	WLT	released2
01/02	023	VDH	WLT	

Release State is
different

Consistent Check: Check Rules

Results:

MSC.00.OK : Objects are in sync
MSC.10.ERR : More then one OwningSite Object exist (Duplicated Items)
MSC.11.ERR : No OwningSite Object exist
MSC.12.ERR : Item with same ItemId and different puid or Item with same puid and different ItemId exist
MSC.13.ERR : Items have different Item types
MSC.14.ERR : OwningSite-Item has no export record, but Items with same ItemId exist
MSC.15.ERR : There is not only exactly one item for each export record
MSC.16.ERR : The release statuses of items are different
MSC.21.ERR : IRS on remote site are different then on OwningSite
MSC.22.ERR : Release status of item revisions are differnet
MSC.31.ERR : Datasets on remote site are different then on OwningSite
MSC.32.ERR : Release status of datasets are different

Attention: Site Groups have to be defined in Sites/Data Import -> Admin -> 2 - Edit 'MultiSite-Groups' settings

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC: Check Rules

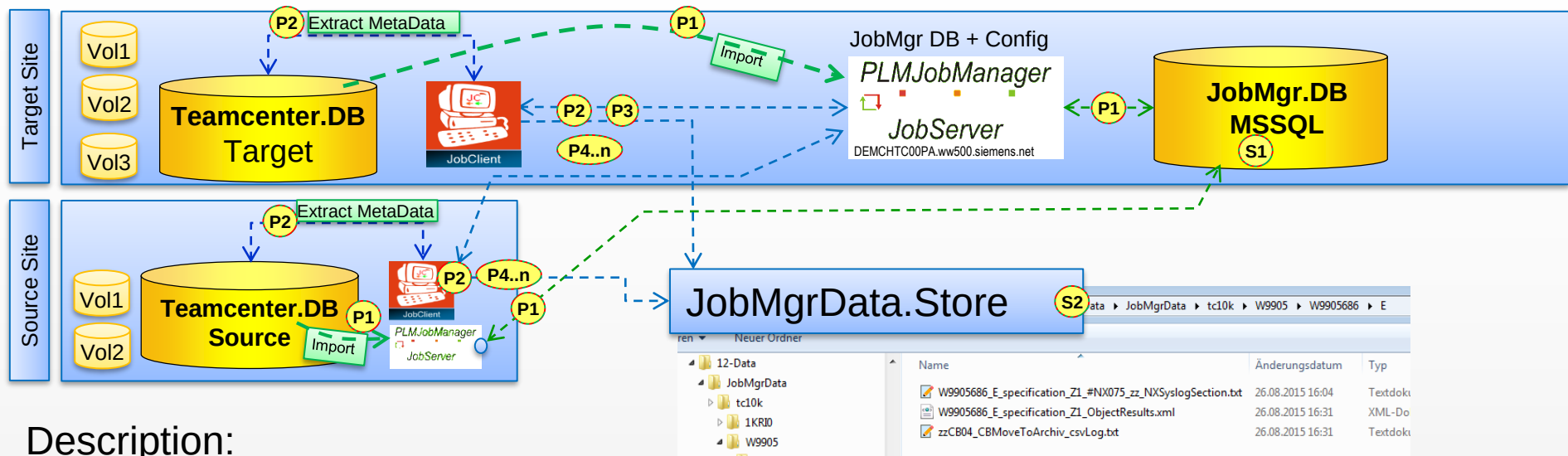
MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

Completeness Analyse Base Concept and System Sketch



Description:

TC MetaData import to JobMgr.DB

- Import Data (P1) into JobMgr.DB (S1) During Import a Base Analyses will be done.

Process Completeness Analyse:

- Extract Data (P2) from TC.DB and save them into **TCMetaData.xml** files (S2)
Action will be done "based on ItemId's" via JobClients located on the Sites
- Analyse Data (P3) based on JobMgr.DB Data and **TCMetaData.xml** files (S2)
Results will be evaluated by the defined 'Check-Rules' and send to JobManager
- Depending on Issues Run CleanUp Actions (P4...Pn)
and Run Steps **P1 → P2 → P3** again

Legend:
P1..3 Process Step
S1..2 Store

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

PLMJobManager Integrations

New Functions

- Integrate Multi Site Check in JobManager GUI (1)
→ is working against a Process Group MC (2)
- Integrate Multi Site Check in TaskMgr to Check automatically after update Data in JM.DB
- Define JobRules to Run Repair processes to solve MC issues
- Get easy and fast way to Update JM.DB Data on Remote Sites
- Easy way to run a free custom SQL Script in JM.DB

The screenshot displays the PLMJobManager GUI. At the top, the 'PGr:' dropdown is set to 'P.Mc[TC.MC]' and is circled with a red '2'. Below the table, a context menu is open, showing options like '02 - ProcessGroup settings extendet. Mc+Rf' and 'ProcessGroupMc'. A red arrow points from the 'PGr:' dropdown to the 'ProcessGroupMc' option. The table lists various process groups with columns for Ir.Id, O.Name, O.Type, O.LastModDate, O.LastM, O.SP/AP, O.P.Mc[TC.MC], O.AP, O.P.01 [Generic], and O.P.01 [Generic]. The 'O.P.Mc[TC.MC]' column shows status like 'X.OutOfSync1.0 (ItemId/It...' and 'N (not.Proc.)'. A red '1' is placed over the 'Run ,MultiSite chk'' button in the context menu.

Ir.Id	O.Name	O.Type	O.LastModDate	O.LastM	O.SP/AP	O.P.Mc[TC.MC]	O.AP	O.P.01 [Generic]
65010000537/000	650100 0537_000	UGMASTER	14.06.2007 13:16	henga	SP	X.OutOfSync1.0 (ItemId/It...	0	D.OK (Done)
65010000590/001	650100 0590_001_...	UGPART	29.06.2007 13:33	goesm	SP	X.OutOfSync1.0 (ItemId/It...		D.OK (Done)
65010000999/000	650100 0999_000	UGMASTER	14.06.2007 13:16	henga	SP	X.OutOfSync1.0 (ItemId/It...		D.OK (Done)
65010001189/000	650100 1189_000_...	UGPART	13.06.2007 05:57	henga	SP	N (not.Proc.)		D.OK (Done)
65010000307/000	650100 0307_000	UGMASTER	05.07.2007 15:25	freiv	SP	N (not.Proc.)		D.OK (Done)
65010001055/000	650100 1055_000_...	UGPART	04.05.2007 07:26	goesm	SP	N (not.Proc.)		D.OK (Done)

02 - ProcessGroup settings extendet. Mc+Rf

- ProcessGroupMc
 - Process Group: Name TC.MC (active)
 - Process Group: Description TC-MultiSite Q-Check and Migration
 - Process Group: Activ True
 - Process Group: Settings Group TC.MC

Content

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

TC Data Quality Check Details

Categorization of the issues (1of2)

Data Quality Settings Manager (v.0.1.1.0)

Save Load Exit

TC Data Quality Settings File: TCDDataQualitySettings.xml

- 01 Data inconsistencies
 - 1.1 Check release status list for rev True
 - 1.2 Check more that one released revision True
 - 1.2.2 status for released revisions Released
 - 1.3 Check chronological creation date of revisions True
 - 1.4.1 Check chronological creation date of revisions True
 - 1.4.2 status for canceled revisions
 - 1.5.1 Check for specific owners True
 - 1.5.2 specific owners String[]-Array
 - 1.6.1 Check for specific name rules for item True
 - 1.6.2 Specific naming rules for item [defined patterns:0][matching type:all]
 - 1.6.3 Check for specific name rules for revisions True
 - 1.6.4 Specific naming rules for revisions [defined patterns:0][matching type:all]
 - 1.6.5 Check for specific name rules for datasets True
 - 1.6.6 Specific naming rules for revisions [defined patterns:0][matching type:all]
- 02 DataSet inconsistencies
 - 2.1.1 Check for to many dataset versions True
 - 2.1.2 Keep limit for dataset versions 3
 - 2.2 Check for missing named references in dataset True
 - 2.4 Check inconsistent cardinality for dataset True
 - 2.5 Check for datasets with multi named references True
- 04 Database cleanup
 - 4.1 Check IR for empty BOMs True

4.1 Check IR for empty BOMs
checks if an item revision has an empty bom
this check is enabled by default

Pos	Description:	Note	ResultCode
1	Data inconsistencies		
1.1	Chk. Release Status: Incorrect Status List (inside one revision)	direct TC.DB access compare status of IR, datasets, BOMview etc. Defining filter what objects have to be compared Check 1: check if release status of IR and datasets are the same Check 2: check if last release status of ir and second last release status of ir are compatible	Check 1: 111 Check 2: 112
1.2	More than 1 Revision with status "Released" for 1 Item	JobMgr.DB	120
1.3	Wrong Release Date on Revision and Status	direct TC.DB access Defining filter what objects have to be compared Rules. .: Check ,Date Order' by IR.ID ,Alpha Order' Objects.: Inc. Filter by Type of objects Example.: A1 Date.Cr < A2 Date.Cr A1 Date.Rel < A2 Date.Rel A2 Date.Cr < A3 Date.Cr A2 Date.Rel < A3 Date.Rel	Release Date 131 Creation date 132
1.4	Inconsistent Owning Site under an Item	Already existing based on JobMgr.DB/MCC Leave it as it is	
1.5	Owning Users: Complete the admin user cleanup	Mark everything which is owned by specified users	150
1.6	CADItemRevisions renamed by migration team	Check for Item/ItemRevision/Dataset naming convention	I:161 IR:162 DS:163
2	Dataset inconsistencies		
2.1	Too many dataset versions	PURGE datasets along refile	210
2.2	Missing Dataset Reference	ERR_301_DSIsMissingFile Integrate with results	220
2.3	Dataset Versions are referenced by Folders or others		
2.4	Inconsistent Cardinality	WRN_140_DSHasMultiIrRefs Integrate with results	240
2.5	Inconsistent Dataset References	ERR_302_DSHasMutiCADFiles Integrate with results	250

Reequipments for 2.3

Search if a Dataset Version has a reference to a folder. In detail **Dataset Version** should not have a reference to any other Object's.

TC Data Quality Check Details

Categorization of the issues (2of2)

Pos	Description:	Note	ResultCode
3	Database inconsistencies (relations, missing objects, ...)		
3.2	Missing Revisions under an Item	See point 1.3	
3.4	Inconsistent Ids	See point 1.6	
3.5	Wrong Item Revision Ids	See point 1.6	
3.6	Missing Part Family Member References	Data about PFM/PFT will be collected during refile for further analysis	
4	Database CleanUp		
4.2.	POM Stub Objects	Identify BOM's / IR's containing POM Stub Objects	
4.5.	Empty BOMs	list can be delivered right away	450
4.7	AppUID	List Missing APPUIDS via SQL and re-create in front of refile	
4.11	Purge Datasets/ Revisions	see 2.1 will be done during refile	
5	Multisite Cleanup		
5.2	Owning Site correction	obsolete	
5.3	Missing Revision	obsolete	
5.4	Multiple Revisions with same ID	obsolete	

TC Data Quality Check Details

Base Settings of all Checks:

Each Check have the base setting:

- CheckOff
- CheckOn_IF_CheckCond_Hits_Then_ReportAsERR
- CheckOn_IF_CheckCond_Hits_Then_ReportAsWRN

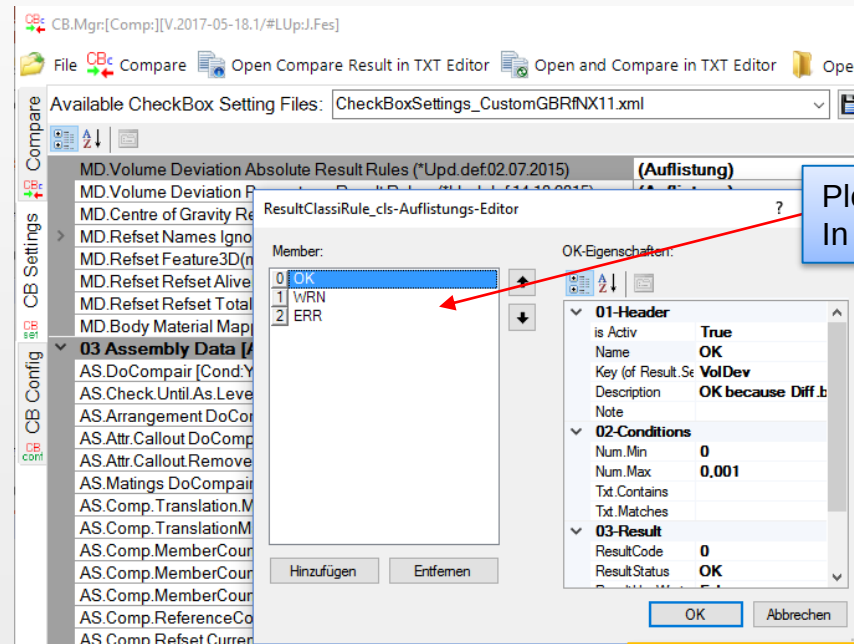
Check is disabled

If Condition hits then Report it as Error

If Condition hits then Report it as WRN

- Results is **to** set only to the Objects that have the ISSUE
- If rule is only valid on specific types (Item/Ir/Ds) then we need to include also TC.type in Check Rule definitions

12.06.2017 S.Gueth Software enhanced



Please see also setting
In CheckBox

#New: 05.06.2017 / J.Fes
#LUp: 12.06.2017 / S.Gueth

TC Data Quality Check Details

Categorization of the issues (1 of 2)

TC Data Quality Settings File:	TCDDataQualitySettings.xml
01 Data inconsistencies	
1.1 Check release status list for rev	True
1.2.1 Check more that one released revision	True
1.2.2 status for released revisions	Released
1.3 Check chronological creation date of revisions	True
1.4.1 Check chronological creation date of revisions	True
1.4.2 status for canceled revisions	True
1.5.1 Check for specific owners	True
1.5.2 specific owners	String[]-Array
1.6.1 Check for specific name rules for item	True
1.6.2 Specific naming rules for item	[defined patterns:0][matching type:all]
1.6.3 Check for specific name rules for revisions	True
1.6.4 Specific naming rules for revisions	[defined patterns:0][matching type:all]
1.6.5 Check for specific name rules for datasets	True
1.6.6 Specific naming rules for revisions	[defined patterns:0][matching type:all]
02 DataSet inconsistencies	
2.1.1 Check for to many dataset versions	True
2.1.2 Keep limit for dataset versions	3
2.2 Check for missing named references in dataset	True
2.4 Check inconsistent cardinality for dataset	True
2.5 Check for datasets with multi named references	True
04 Database cleanup	
4.1 Check IR for empty BOMs	True
4.1 Check IR for empty BOMs	
checks if an item revision has an empty bom	
this check is enabled by default	

Pos	Description:	Note	ResultCode
1	Data inconsistencies		
1.1	Chk. Release Status: Incorrect Status List (inside one revision)	direct TC.DB access compare status of IR, datasets, BOMview etc. Defining filter what objects have to be compared	110
1.2	More than 1 Revision with status "Released" for 1 Item	JobMgr.DB	120
1.3	Wrong Release Date on Revision and Status	direct TC.DB access Defining filter what objects have to be compared Rules. .: Check ,Date Order' by IR.ID ,Alpha Order' Objects.: Inc. Filter by Type of objects Example.: A1 Date.Cr < A2 Date.Cr A1 Date.Rel < A2 Date.Rel A2 Date.Cr < A3 Date.Cr A2 Date.Rel < A3 Date.Rel 13.06.2017 S.Gueth: Rcodes Updated / Sort Issue solved	Release Date 131 Creation date 132
1.4	Inconsistent Owning Site under an Item	Already existing based on JobMgr.DB/MCC Leave it as it is 02.06.2017 Chris: Talks with Mr. Gruber 07.06.2017 Chris: will take with Mrs. Handsel then decide if check is needed	
1.5	Owning Users: Complete the admin user cleanup	Mark everything which is owned by specified users 02.06.2017 Result Need to set to 150	150
1.6	CADItemRevisions renamed by migration team	Check for Item/ItemRevision/Dataset naming convention	I:161 IR:162 DS.:163

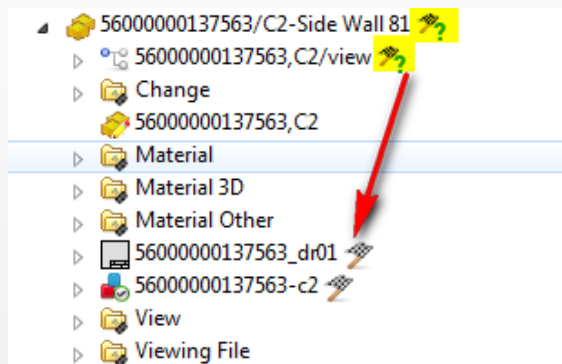
#New: 29.05.2017 / J.Fes
#LUp: 05.06.2017 / J.Fes+Krzy.Du

Check 1.1 Release Status: Incorrect Status List (inside one revision)

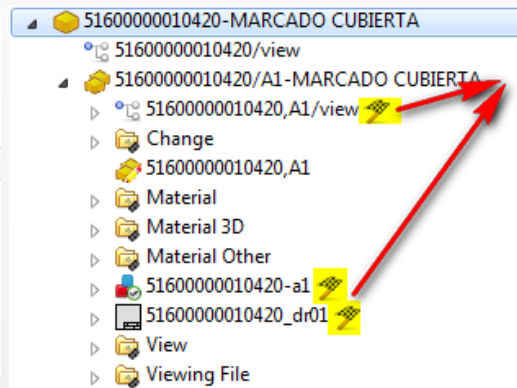
Data inconsistencies (1of3)

- ✓ Incorrect status within Item Revision

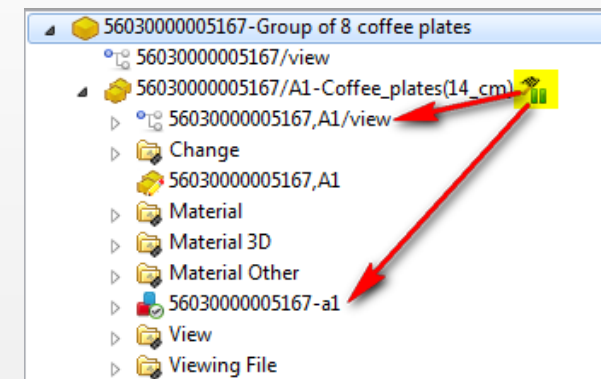
Mixed statuses



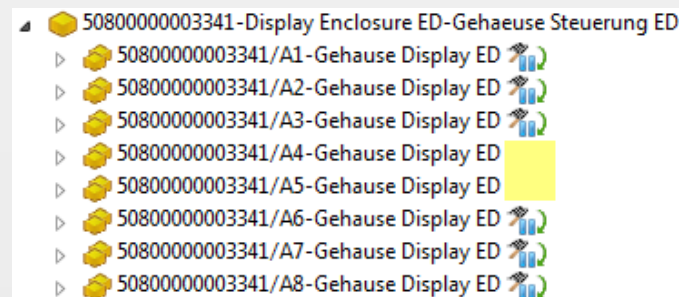
Missing status on IR



Missing status on BVR and dataset



- ✓ Missing status on Item Revision(s)



Notes:

- witch data are used for this Check are direct form TC.DB or from JobMgr Data?
- This Check need to check status for defined object types

Check 1.1 Release Status: Incorrect Status List (inside one revision)

5840C000034199-slotted_capstan_s_DIN_404							
Object	Type	Relation	Owner	Group ID	Last Modifie...	Checked-Out	Status
Family Members	Folder	References	BSH Catalog	catalog.bsh_	10-Aug-2005 16:		
5840C000034199/A1-slotted_capst	Catalog Revision	Revisions	BSH Catalog	catalog.bsh_	21-Dec-2005 11:		Archived
5840C000034199/B1-slotted_capst	Catalog Revision	Revisions	BSH Catalog	catalog.bsh_	19-Apr-2011 09:		[Released, Archived]
5840C000034199/C1-slotted_capst	Catalog Revision	Revisions	BSH Catalog	catalog.bsh_	30-Sep-2013 11:		Released

Properties

Catalog Revision

Status: Released
Archived

Object	Type	Relation	Owner	Group ID	Last Modifie...	Checked-Out	Status
5840C000034199/B1-slotted	Catalog Revision	Revisions	BSH Catalog	catalog.bsh_	19-Apr-2011 09:		[Released, Archived]
5840C000034199,B1	Catalog Master	Item Masters	BSH Catalog	catalog.bsh_	09-Jan-2006 10:4		
5840c000034199-b1	DirectModel	Rendering	BSH Catalog	catalog.bsh_	18-Nov-2007 08:		
5840c000034199-b1	UGMASTER	Specifications	BSH Catalog	catalog.bsh_	19-Apr-2011 09:		[Released, Archived]

Check 1.1 Release Status: Incorrect Status List (inside one revision)

you can define a list of dataset types for check 1.1 where the release status will be compared to the release state of the item revision (the * means any dataset type):

Result code on failure is: 111

Data Quality Settings Manager (v.0.1.1.0)

Save Load Exit

TC Data Quality Settings File:

01 Data inconsistencies

1.1.1 Check release status for rev	True
1.1.3 Settings for release states	(Sammlung)
1.1.3 Settings for release status consistency for datasets	String[]-Array
1.1.4 On failure mark as	
1.2.1 Check more that one released revision	
1.2.2 status for released revisions	
1.2.3 On failure mark as	
1.3.1.1 Check chronological release date of revisions	
1.3.1.2 status for canceled revisions	
1.3.1.3 On failure mark as	
1.3.2.1 Check chronological creation date of revisions	
1.3.2.2 On failure mark as	
1.5.1 Check for specific owners	
1.5.2 specific owners	
1.5.3 On failure mark as	
1.6.1.1 Check for specific name rules for item	
1.6.1.2 Specific naming rules for item	
1.6.1.3 On failure mark as	
1.6.2.1 Check for specific name rules for revisions	
1.6.2.2 Specific naming rules for revisions	
1.6.2.3 On failure mark as	

Zeichenfolgen-Editor

Zeichenfolgen in der Sammlung eingeben (eine pro Zeile):

UGPART
UGMASTER

OK Abbrechen

#New: 27.06.2017 / S.Gueth
#Lup:

Check 1.1 Release Status: Incorrect Status List (inside one revision)

Data inconsistencies (1of3)

Notes:

Example:

Item	IR	DATA in IR	Last.RelSt	2ntLast.RelSt
4711				
	4711/a →	Dataset1 Dataset1 BOM	Frozen	
	4711/b →	Dataset1 Dataset1 BOM	Tool Order	Quotation
	4711/c →	Dataset1 Dataset1 BOM	Released	Tool Order

Last.Rel. Status	Allowed Status defs. for 2ntLast.Rel.Status
Released	any status except of status: 'Invalid,Archived'
Tool Order	status 'Frozen', 'Quotation' and 'Cancelled' possible
Quotation	status Frozen and Cancelled possible
Frozen	status Frozen and Cancelled possible
Cancelled	status Frozen, Tool Order, Quotation possible
Invalid	Rel.Status.Last 'Invalid' has to be set on Item all IR's and on Obj below IR's
Archived	Status 'Released'

Check 1.1 Release Status: Incorrect Status List (inside one revision)

Example Rel.Status 'Invalid'

Object	Type	Relation	Status
50400001002728 CADItem			Invalid
50400001002728 CADItem Revision		Revisions	[Frozen, none, Invalid]
50400001002728 UGPART		Specifications	[Frozen, none, Invalid]
50400001002728 UGMASTER		Specifications	[Frozen, none, Invalid]
50400001002728 CADItem Revision		Revisions	[Frozen, Released, none, Invalid]
50400001002728 UGPART		Specifications	[Frozen, Released, none, Invalid]
50400001002728 UGMASTER		Specifications	[Frozen, Released, none, Invalid]

Search Results

Rule

All Objects must have the Last.Rel.Status 'Invalid'

22.09.2017 Setup Check 1.1.3 Settings for release states

Data Quality Settings Manager (v.0.1.1.0)

Save Load Exit

TC Data Quality Settings File: TCDDataQualitySettings.xml

01 Data inconsistencies

- 1.1.1 Check release status for rev True
- 1.1.3 Settings for release states (Collection)**
- 1.1.3 Settings for release status consistency for datasets String[] Array
- 1.1.4 On failure mark as ERR
- 1.2.1 Check more that one released revision
- 1.2.2 status for released revisions
- 1.2.3 On failure mark as
- 1.3.1.1 Check chronological release date of revisions
- 1.3.1.2 status for canceled revisions
- 1.3.1.3 On failure mark as
- 1.3.2.1 Check chronological creation date of revisions
- 1.3.2.2 On failure mark as
- 1.5.1 Check for specific owners
- 1.5.2 specific owners
- 1.5.3 On failure mark as
- 1.6.1.1 Check for specific name rules for item
- 1.6.1.2 Specific naming rules for item
- 1.6.1.3 On failure mark as
- 1.6.2.1 Check for specific name rules for revisions
- 1.6.2.2 Specific naming rules for revisions
- 1.6.2.3 On failure mark as
- 1.6.3.1 Check for specific name rules for datasets
- 1.6.3.2 Specific naming rules for datasets
- 1.6.3.3 On failure mark as

02 DataSet inconsistencies

- 2.1.1 Check for to many dataset versions
- 2.1.2 Keep limit for dataset versions

RelStateCheckSettings_cls Collection Editor

Members:

- 0 release state: Released
- 1 release state: Tool Order**
- 2 release state: Quotation
- 3 release state: Frozen
- 4 release state: Cancelled
- 5 release state: Archiving

release state: Tool Order properties:

Release Status Check Settings

- 1. last release status Tool Order
- 2. allowed 2 last release states String[] Array**
 - [0] Frozen
 - [1] Quotation
 - [2] Cancelled
- 3. NOT allowed 2 last release states String[] Array

RelStateCheckSettings_cls Collection Editor

Members:

- 0 release state: Released
- 1 release state: Tool Order**
- 2 release state: Quotation
- 3 release state: Frozen
- 4 release state: Cancelled
- 5 release state: Archiving

release state: Released properties:

Release Status Check Settings

- 1. last release status Released
- 2. allowed 2 last release states String[] Array**
 - [0] -
- 3. NOT allowed 2 last release states String[] Array**
 - [0] Invalid

Defines allow status before this status

Defines NOT allowed status before this status

Check 1.1 Release Status: Incorrect Status List (inside one revision)

Einbinden von Obj_ReleaseStateListAll.sql

```

MigIdeas2NX_35_APBomCompair_cls.vb  MigIdeas2NX_01_2_...AExample_docu.txt  TCDDataQuality_2016...yChecksVer1_cls.vb  TCDDataQuality_2016...tyCheckVer1_cls.vb
VB JobManager.CmdTools  SharedQualityChecksVer1_cls  Check110RelStateListOfRev

18      ''' <summary>
19      ''' function that checks if there are different rel status under one revision
20      ''' <para/>#Doc: ?? Check 1.1 Release Status: Incorrect Status List (inside one revision)
21      ''' </summary>
22      ''' <remarks>
23      ''' #New: 3.1266;26.09.2016;S.Gueth
24      ''' </remarks>
25      1 Verweis
26      Public Shared Function Check110RelStateListOfRev(ByRef DQItem_obj As DataQualityItem_cls) As ToolsGl
27      ' set result group, result key and description of check
28      Dim resGroup As String = SectionGroupEnumV1.C1_RelStat.ToString
29      Dim resSecKey As String = SectionKeysEnumV1.StatLi.ToString
30      Dim checkDescription As String = "release states between itemRev and dataset are different"

```

#New: 25.05.2017 / J.Fes
#Lup:

Check 1.3 Wrong Release Date on Revision and Status

Details from BSH Documentation BSH_TeamcenterTopicsforCleanup_TCDATAQualityCheck.docx

1.3. Wrong Release Date on Revision and Status

Sequence of ItemRevisions and their assigned datasets not correct – “Date Released” and “Date Created” have to be in chronological order, except of ItemRevision with Status “**Cancelled**”! Status “Cancelled” can be set on any ItemRev at any time.

Note: **Modification dates** should not be considered as the ItemRevisions could be modified by admin-users after release. (e.g. setting “last status” flag).

A1 dates < A2 dates < A3 dates ... < B1 dates ... < Z99 dates

- Check of Archived Statuses
 - The “Date Released” of the statuses “Archived” has to be older than the “Date Released” of the last status “Released”
 - Date Released of status “Archived” ReleaseStatusImpl < Date Released of Status “Released” ReleaseStatusImpl

Analysis: can be done via JobManager – consistency check (already available)

Effect: If the release status data is not correct, the opening of an assembly or an Item could be show the wrong result. Depending on the load options, the revision with the highest date will be loaded. → **Critical OP – no discussion → high critical (damage in case of tool order with wrong content)**

#New: 29.05.2017 / J.Fes
#Lup:

Check 1.3 Wrong Release Date on Revision and Status

Important:

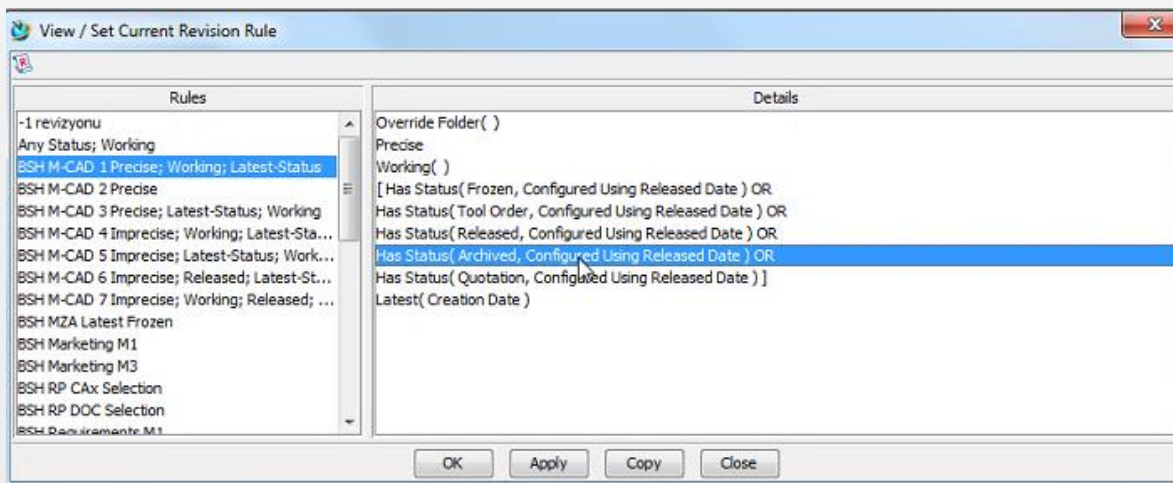
It is needed to check the “Creation date” and “Release Date”

1.3	Wrong Release Date on Revision and Status	direct TC.DB access Defining filter what objects have to compared Rules. .: Check ,Date Order' by IR.ID ,Alpha Order' Objects.: Inc. Filter by Type of objects Example.: A1 Date.Cr < A2 Date.Cr A1 Date.Rel < A2 Date.Rel A2 Date.Cr < A3 Date.Cr A2 Date.Rel < A3 Date.Rel	130
-----	---	---	-----

Note:

Object Types should be configurable

It Shold be configurable if Creation Date and Replease



#New: 29.05.2017 / J.Fes
#Lup:

Check 1.3 Wrong Release Date on Revision and Status

Issue Sort Order

Before: Item Revision where sorted by alphabetic rules:

```
55000000013295/A1
55000000013295/A10
55000000013295/A11
55000000013295/A2
55000000013295/A3
55000000013295/A4
55000000013295/A5
55000000013295/A6
55000000013295/A7
55000000013295/A8
55000000013295/A9
```

Now: Item Revision are sorted in a natural way

```
55000000013295/A1
55000000013295/A2
55000000013295/A3
55000000013295/A4
55000000013295/A5
55000000013295/A6
55000000013295/A7
55000000013295/A8
55000000013295/A9
55000000013295/A10
55000000013295/A11
```

#New: 14.06.2017 / S.Gueth
#LUp:

12.01.2018 -> Telco with Krzysztof

ER: Move error to an Item level

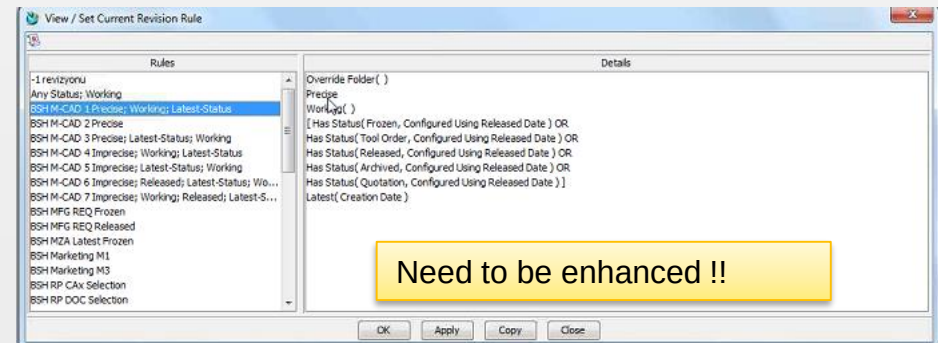
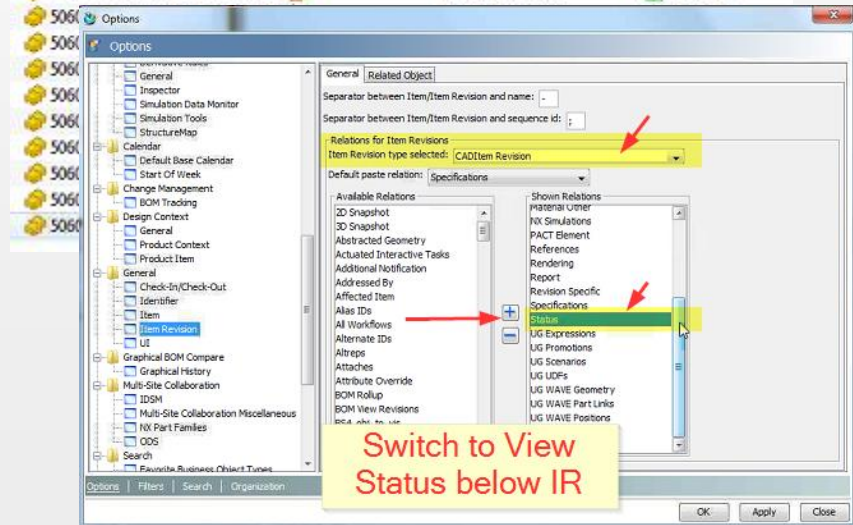
What about check of Date Released of an last status attached to ItemRevisions?
Is really status 'Archiving' excluded ? See 50600000002256

Object	Date Released	Status
50600000002256/A1-BRKT., GAS SHELF	15-Oct-2002 10:05	Quotation
50600000002256/A2-BRKT., GAS SHELF	30-Oct-2002 18:56	Frozen
50600000002256/A3-BRKT., GAS SHELF	30-Oct-2002 09:05	Quotation
50600000002256/A4-GAS SHELF	23-Jan-2003 00:06	Archived
50600000002256/B1-GAS SHELF	14-Feb-2003 20:43	Archived
50600000002256/C1-GAS SHELF	19-Feb-2003 20:05	Archived
50600000002256/D1-GAS SHELF	26-Mar-2003 19:20	Archived
50600000002256/E1-GAS SHELF	26-Mar-2003 19:41	Frozen
50600000002256/E2-GAS SHELF	26-Mar-2003 20:09	Frozen
50600000002256/E3-GAS SHELF	31-Mar-2003 14:43	Archived
50600000002256/F1-GAS SHELF	09-Jun-2003 17:04	Archived

TC - Revision Rules is taken date of last status

Object	Date Released	Status	Type	Date Created	Relation
50600000002256/A1-BRKT., GAS SHELF	15-Oct-2002 10:05	Quotation	CADItem Revision	15-Oct-2002 10:05	Revisions
			ReleaseStatus		Status

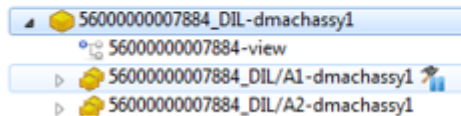
Object of type
ReleaseStatus



Check 1.6 CADItemRevisions renamed by migration team

1.6. CADItemRevisions renamed by migration team

Reason: Item with different owning sites in the different CAX-systems. The Business colleagues have to decide which site is the correct owning site.



Analysis: can be done via JobManager – consistency check (already available) – this list can be provided right away

Effect: During the NextGen migration, duplicated item ids are renamed to unique ids to allow the import in the central system. The decision was done with the business coordinator. Now in some cases the user wants to have both versions of the Item. In this case one of them must be renamed to a complete new number. But this does not really affect the consistency → **Low**

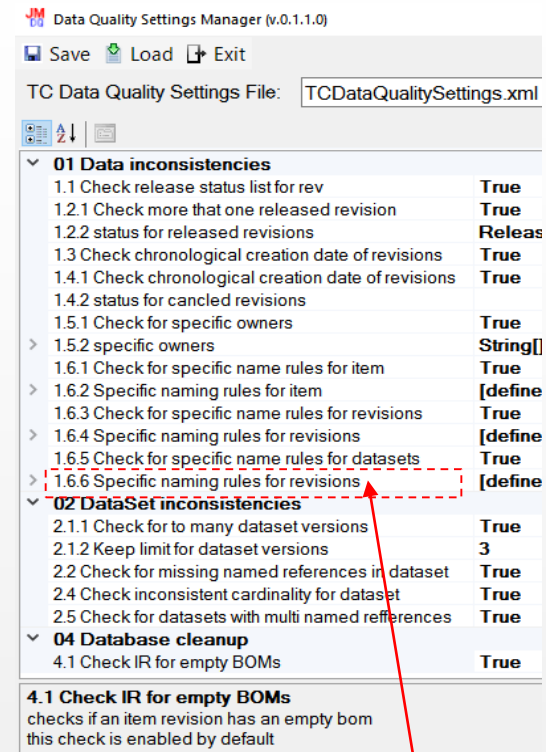
OP. → **Low**

Name schema / Name Convention Rules

Type	Name	
ItemId	must match name base rules	
RevId	must match name base rules	
DS	#ItemId#-#RevId#	// master
DS	#ItemId#_dr01	// spec. 1
DS	#ItemId#_dr02	// spec. 2
DS	#ItemId#_ar01	// altrep 1
DS	#ItemId#_ar02	// altrep 2

Example:

4711
A
4711-A Master
4711_dr01
4711_dr02
B
9999-B Master
4711_dr01
4711_dr02
4711__dil_dr03



Replace
for
revisions
with for
datasets

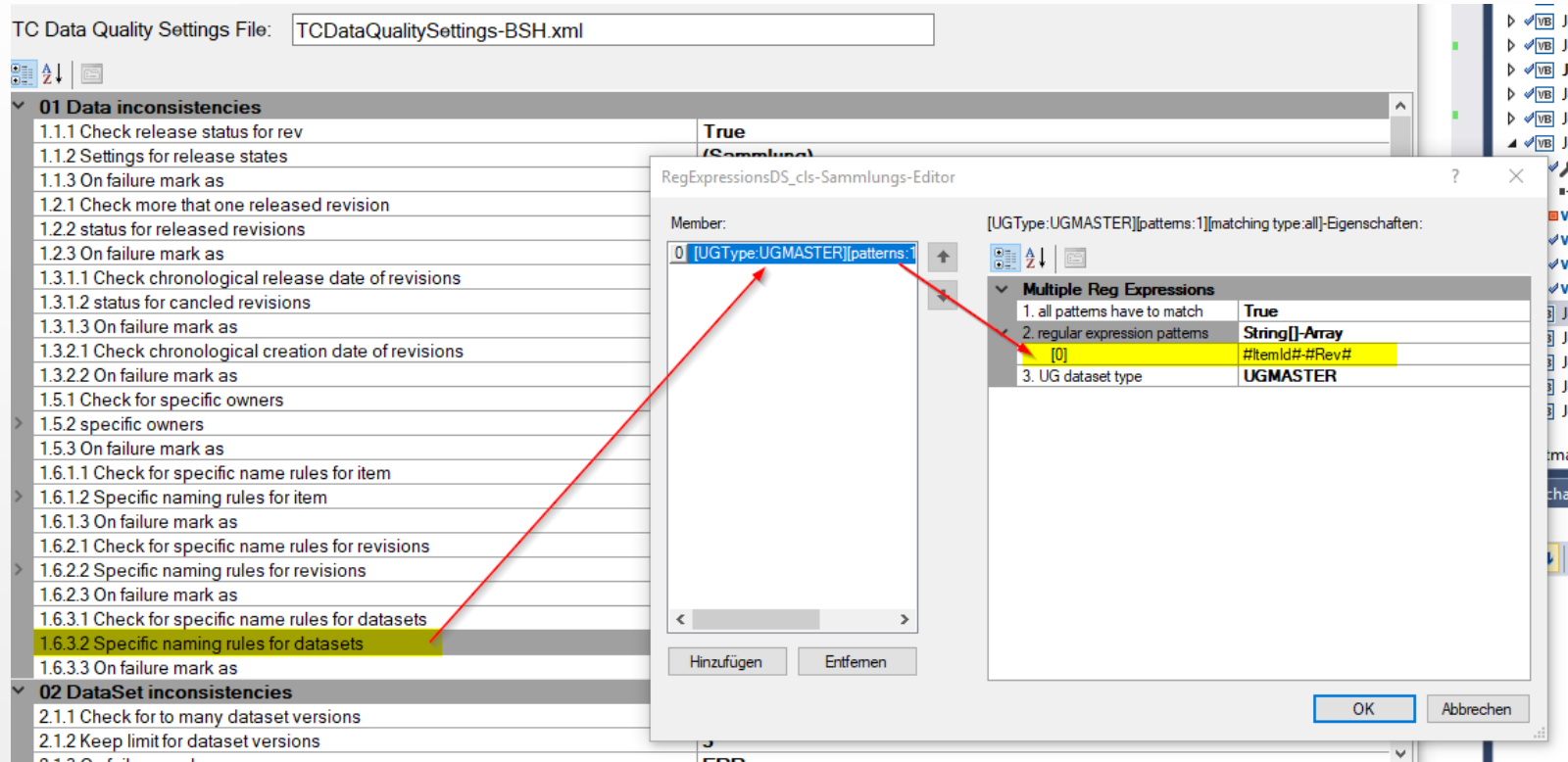
#New: 05.06.2017 / J.Fes
#Lup: 19.06.2017 / S.Gueth

Check 1.6 CADItemRevisions renamed by migration team

New settings for naming rules for datasets. You can define naming rules for specific dataset types. And you can also use gitter variables in the naming rules for item itemRevs and datasets.

Valid gitter variables are:

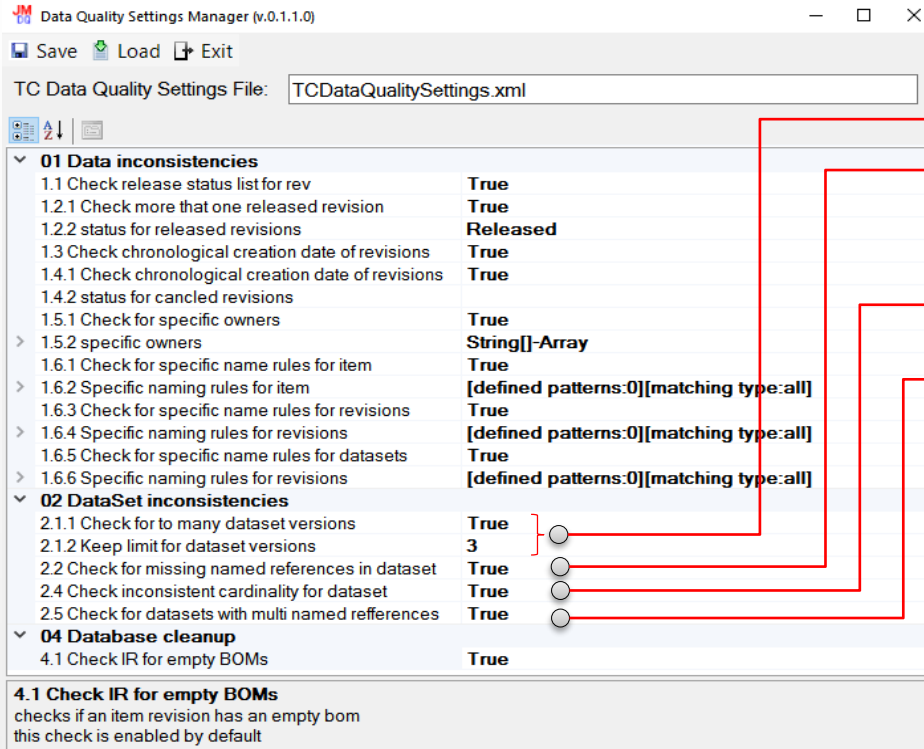
```
#ItemId#
#Rev#
#Irid#
#Irr_Puid#
#ObjectId#
#ObjectName#
#ObjectType#
#ObjectOwningSitelId#
#ObjectFromSitelId#
#ObjectClnName#
#ObjectFs_Vol#
#ObjectFs_NE#
#ObjectFs_DPNE#
#ObjectGroup#
#ObjectOwner#
#ObjectPuid#
#IrrNameCLI#
#ItemIdCLI#
#ObjectCreateDate#
#ObjectFs_DPNE#
#ObjectLastModDate#
#ObjectLastModUser#
#ObjectUgMaster_Type#
#ProcStateCol01#
#ProcStateCol02#
#ProcStateCol03#
#ProcStateCol04#
#ProcStateCol05#
#ProcStateCol06#
#ProcStateCol07#
#ProcStateCol08#
#ProcStateCol09#
#ProcStateCol10#
#ProcStateCol11#
#ProcStateCol12#
#ProcStateCol13#
#ProcStateCol14#
#ProcStateCol15#
#ProcStateCol16#
#ProcStateCol17#
#ProcStateCol18#
#ProcStateCol19#
#ProcStateCol20#
#ProcStateColRf#
```



#New: 05.06.2017 / J.Fes
#Lup: 19.06.2017 / S.Gueth

TC Data Quality Check Details

Categorization of the issues (1of2)

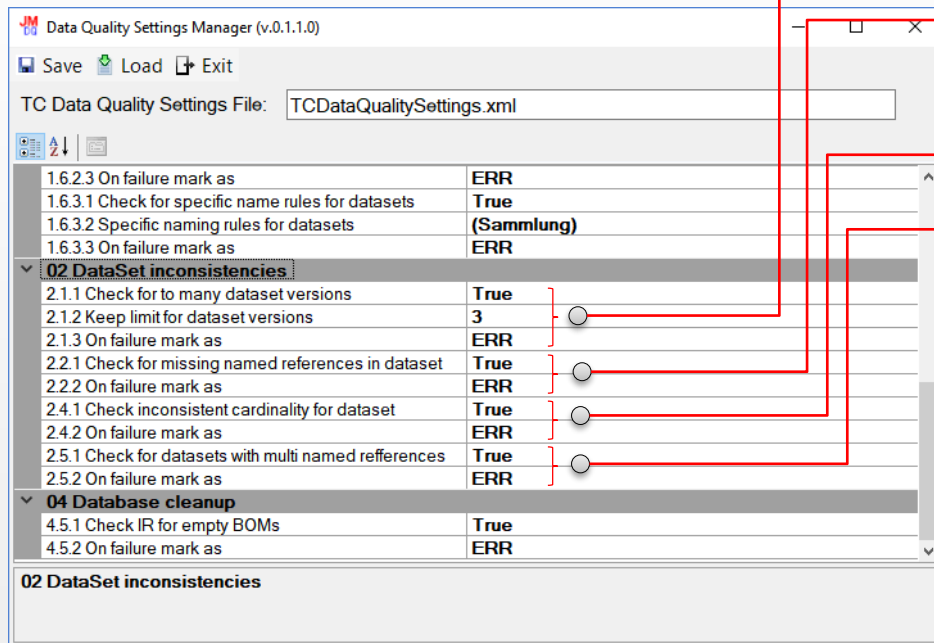


Pos	Description:	Note	ResultCode
2	Dataset inconsistencies		
2.1	Too many dataset versions	PURGE datasets along refile 05.06.2017 : Enhance : ISSUE 05.10.2017	211 212
2.2	Missing Dataset Reference	ERR_301_DSIsMissingFile Integrate with results 05.06.2017 : OK? 05.10.2017: YES OK	220
2.3	Dataset Revisions are referenced by Folders or others	05.06.2017 : see slide	
2.4	Inconsistent Cardinality	WRN_140_DSHasMultiIrRefs Integrate with results 05.06.2017 : OK	240
2.5	Inconsistent Dataset References	ERR_302_DSHasMuticADFiles Integrate with results 05.06.2017 : OK	250

#New: 05.06.2017 / J.Fes
#Lup:

TC Data Quality Check Details

Categorization of the issues (1of2)



Pos	Description:	Note	ResultCode
2	Dataset inconsistencies		
2.1	Too many dataset versions	PURGE datasets along refile 05.06.2017 : Enhance :	211 212
2.2	Missing Dataset Reference	ERR_301_DSIsMissingFile Integrate with results 05.06.2017 : OK? 05.10.2017: YES OK	220
2.3	Dataset Revisions are referenced by Folders or others	05.10.2017 : see slide	
2.4	Inconsistent Cardinality	WRN_140_DSHasMultiIrRefs Integrate with results 05.06.2017 : OK	240
2.5	Inconsistent Dataset References	ERR_302_DSHasMuticADFiles Integrate with results 05.10.2017 : OK	250

05.10.2017:

2.1 Is to be checked see Issue tracker

<https://tracksys.startp.de/Issues/IssueDetail.aspx?id=2744>

2.3 Not yet Implemented

#ToDo: Implement SQL to find References of Datasets to Folders or other types.

#New: 05.06.2017 / J.Fes

#Lup: 05.10.2017 / J.Fes

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

Check 2.1 Too many dataset versions

2.1. Too many dataset versions

Too many dataset versions, because of wrong version limit.

Export took too much time and sometimes exports or load failed

Analysis: addPLM has a tool for purging internal revisions except of last and second last internal version and if one or two of three internal versions are missing, the tool will create the missing versions
=> not only analyzing but also **cleanup**

Effect: If there are more than the allowed dataset versions, it will not have a negative effect for the normal work. It waste space on the volume and it creates bigger export files during the transfer ownership. → **Low**

OP - maybe purge dataset (going to defined keep limit) should be activated again !! as former in CAX
→ **LOW**

@Sascha:
please check current
implementation

02 DataSet inconsistencies	True
2.1.1 Check for too many dataset versions	True
2.1.2 Keep limit for dataset versions	3

O.Ds.Ver	Σ	O.Ds.Ver(n)	Σ	O.Ds.VerKeepLim	Σ
=	5	=		=	
5		3		3	
5		3		3	
5		1		3	
5		3		3	

Check Rules:

- Check if defined Keep Limit ≤ Ds.VerKeepLim ERR:211
- Check if O.Ds.Ver(n) ≤ O.Ds.VerKeepLim ERR:212

#New: 05.06.2017 / J.Fes
#Lup:

Check 2.2 Missing Dataset Reference

2.2. Missing Dataset Reference

Dataset reference Imanfile does not exist but Named Reference count for dataset is available. The ImanFile from CAX system is missing or partially available in PLM system.

Analysis: can be done via JobManager – consistency check – this list can be provided right away

Effect: In this case the dataset could not be opened. If all dataset versions are missing, the whole work is lost. This must be analyzed and corrected until the old CAD sites are available, because some of this missing references could be found there → **Critical**

OP - Critical --- missing files (volume) or relations (DB) → **Critical**

@Sascha:
Results is to set only to the Objects that have the ISSUE

@Sascha:
please check current
implementation

Issue Example:

Ir.Id	Σ #	O.Name	Σ #	Ir.Rank	Σ #	O.Type	Σ #	O.LastModDate	Σ #	O.Last / Σ #	O.SP/A	Σ #	O.A	Σ #	O.A	Σ #	O.P.10 [TCDataQuality]	Σ #	P.Res.Code	Σ #
51001002090553/A1		51001002090553-a1		-2		UGMASTER		2009-01-27 08:34		infodba	SP		0		0		D.ERR (End.Error.Chkt)		220	
51001002090553/A2		51001002090553-a2		-1		UGMASTER		2009-01-27 08:34			SP		0		0		D.ERR (End.Error.Chkt)		220	
51001002090553/A3		51001002090553-a3		0		UGMASTER		2008-09-08 08:00		michaelisa	SP		0		0		D.ERR (End.Error.Chkt)		220	

#New: 05.06.2017 / J.Fes
#Lup:

Check 2.3 Dataset Revisions are referenced by Folders or others

2.3. Dataset Revisions are referenced by Folders or others

Discrete dataset revisions are referenced by folders or others. There are seldom cases where not the central dataset (without version number display) is referenced by a folder or something similar but a discrete version. Updating the dataset then leads to errors because the old version can't be removed, e.g. Dataset highest version is 12 and version 5 is still referenced. The cleanup to keep the version limit to 3 will fail.

Analysis: can be done via JobManager –list can be provided

Effect: If a dataset revision is referenced in the system it could not be deleted during the normal purge. This affect then the case 2.1 and all its problems. A dataset version should never be references and therefore this should be also cleaned up → **Medium**

OP - should be done. → **Medium**

@Sascha:
Results is to set only to the Objects that have the ISSUE

Issue Example:

Ir.Id	Σ #	O.Name	Σ #	Ir.Rank	Σ #	O.Type	Σ #	O.LastModDate	Σ #	O.Last / Σ #	O.SP/A	Σ #	O.A	Σ #	O.P.10 [TCDataQuality]	Σ #	P.Res.Code	Σ #
51001002090553/A1		51001002090553-a1		-2		UGMASTER		2009-01-27 08:34		infodba	SP		0		D.ERR (End_Error:Chkt)		220	
51001002090553/A2		51001002090553-a2		-1		UGMASTER		2009-01-27 08:34			SP		0		D.ERR (End_Error:Chkt)		220	
51001002090553/A3		51001002090553-a3		0		UGMASTER		2008-09-08 08:00		michaelisa	SP		0		D.ERR (End_Error:Chkt)		220	

#New: 05.06.2017 / J.Fes
#Lup:

Check 2.3 Dataset Revisions are referenced by Folders or others

Versions

2.3. Dataset Revisions are referenced by Folders or others

Discrete dataset revisions are referenced by folders or others. There are seldom cases where not the central dataset (without version number display) is referenced by a folder or something similar but a discrete version. Updating the dataset then leads to errors because the old version can't be removed, e.g. Dataset highest version is 12 and version 5 is still referenced. The cleanup to keep the version limit to 3 will fail.

Analysis: can be done via JobManager -list can be provided

Effect: If a dataset revision is referenced in the system it could not be deleted during the normal purge. This affects then the case 2.1 and all its problems. A dataset version should never be referenced and therefore this should be also cleaned up → **Medium**

OP - should be done. → **Medium**

55310000002481/A1-Signal Cable

Object	Type	Relation
55310000002481,A1	CADItem Revision	Item Masters
55310000002481-a1	DirectModel	Rendering
55310000002481-a1	UGMASTER	Specifications
55310000002481_dr01	UGPART	References

Dataset has wrong relation so NX cannot open this part

_Refiling: 55310000002481/A1, Type: master.....Done.

**** Refiling Complete ****

Successfully processed: 1 (0 non-masters)
Failed to process: 0 (0 non-masters)
Unable to process: 0 (0 non-masters)

Definition:

- Check if Dataset have right 'relation type' between DS and Revision
In JobMgr we need a mapping with
DS Type – and DataSet Ir Repleation type
- Check If DS has only 1 Relation to revision
any other relation is found for datasets versions

2 Results:

- Right relation to IR
- DS.Version has no other relation then 'revision-anchor' relation

For Implementation:

- Need SQL to find any references

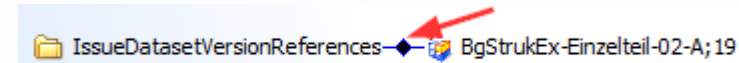
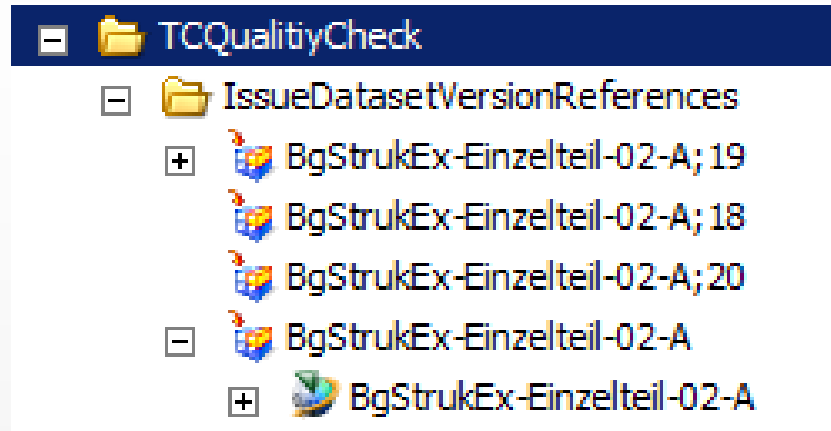
```

Obj_Attr.SQL  3.. I_IR.SQL  4.. I_All.SQL  5.. IR_DataSetsAll.SQL  6.. IR_DataSets.S
0 ..... 10 ..... 20 ..... 30 ..... 40 ..... 50
1 /* IR DS #L.Up J.Fes 26.10.16 */
2 SELECT
3   pd.puid                               As DataSetPuid,
4   s.psite_id                           As OwningSite_TC_pSite_ID,
5   ptype.ptype_name                     As DataSetIrRelationType,
6   pdt.pdatasettype_name               As DataSetType,
7   wso.pobject_name                     As DataSetName,

```

#New: 05.06.2017 / J.Fes
#Lup:

Check 2.3 Dataset Revisions are referenced by Folders or others



#New: 05.06.2017 / J.Fes
#Lup:

TC Data Quality Check Details

Categorization of the issues (2of2)

Data Quality Settings Manager (v.0.1.1.0)

Save Load Exit

TC Data Quality Settings File: TCDDataQualitySettings.xml

01 Data inconsistencies

- 1.1 Check release status list for rev True
- 1.2.1 Check more that one released revision True
- 1.2.2 status for released revisions Released
- 1.3 Check chronological creation date of revisions True
- 1.4.1 Check chronological creation date of revisions True
- 1.4.2 status for canceled revisions
- 1.5.1 Check for specific owners True
- 1.5.2 specific owners String[]-Array
- 1.6.1 Check for specific name rules for item True
- 1.6.2 Specific naming rules for item [defined patterns:0][matching type:all] True
- 1.6.3 Check for specific name rules for revisions [defined patterns:0][matching type:all] True
- 1.6.4 Specific naming rules for revisions [defined patterns:0][matching type:all] True
- 1.6.5 Check for specific name rules for datasets True
- 1.6.6 Specific naming rules for revisions [defined patterns:0][matching type:all] True

02 DataSet inconsistencies

- 2.1.1 Check for to many dataset versions True
- 2.1.2 Keep limit for dataset versions 3
- 2.2 Check for missing named references in dataset True
- 2.4 Check inconsistent cardinality for dataset True
- 2.5 Check for datasets with multi named references True

03-Database inconsistencies (relations, missing objects, ...)

- 3.1 Missing Revisions under an Item
Add List of IR Rules A-B-C... Number Rule 1,2...
- 3.6 Missing Part Family Member References
ON-OFF-WRN

Pos	Description:	Note	ResultCode
3	Database inconsistencies (relations, missing objects, ...)		
3.2	Missing Revisions under an Item	See point 1.3 07.06.2017 maybe integrate it into Point 1.3	
3.4	Inconsistent Ids	See point 1.6 07.06.2017 is already integr. In 1.6	
3.5	Wrong Item Revision Ids	See point 1.6 07.06.2017 is already integr. In 1.6	
3.6	Missing Part Family Member References	Data about PFM/PFT will be collected during refile for further analysis 07.06.2017 please see Slide Check 4.2 POM Stub Objects	360

Check 3.2 Missing Revisions under an Item

3.2. Missing Revisions under an Item

Hadsel: Not critical

The name of an item revision is a combination of former called revision and sequence.

The abbreviation for revision is a single character and for sequence it is a number.

The "Revision" of the ItemRevisions of one Item must be in alphabetical order without any gaps:

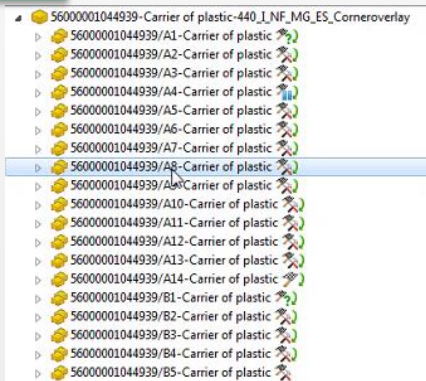
A-B-C-D-E-F-G-H-I-J-K-L-M-N-O-P-Q-R-S-T-U-V-W-X-Y-Z-AA-AB-....-AAA

Analysis: can be done via JobManager

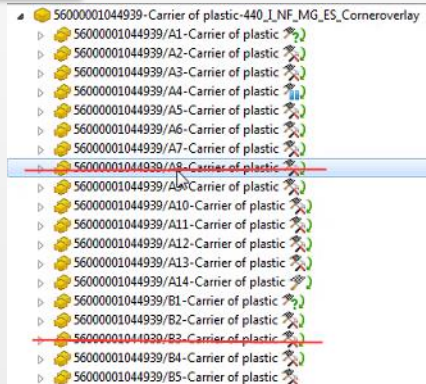
Effect: If a revision number is missing under an Item, it has no real effect on the system. Only in the case that a whole revision is missing, but in this case the revision id jumps from A1 to C1 and so the B is missing. There is no real reason to correct this. It is only a display topic. → Low
OP -> Low

Examples:

OK

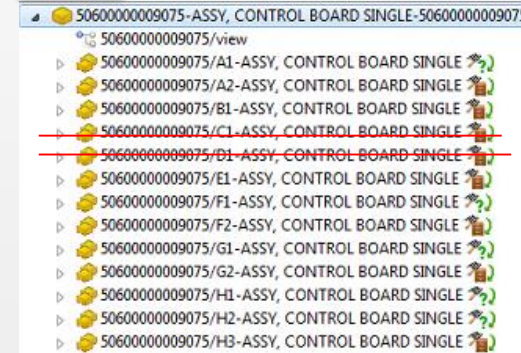


WRN



In case Next Number is missing:
Result.Msg = A8,B3

WRN



In case IR is missing at all:
Result.Msg = Cx,Dx

#New: 07.06.2017 / J.Fes
#Lup:

Results is to assign to ITEM
as WRN with the list of missing
RevId's

Check 3.6 Missing Part Family Member References

[07.06.2017 11:51]

krzysztof.duszkiewicz@bshg.com:

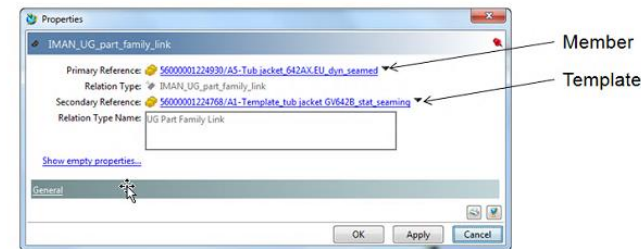
```
SELECT it.puid FROM PIMANTYPE it
WHERE it.ptype_class = 'ImanRelation'
AND it.ptype_name =
'IMAN_UG_part_family_link'
```

PartFamily information

#Chris 29.03.2016

Redmine Task #27759

BSH_PFTType: <NO | PFM | PFT >
BSH_PFM_TemplateItemID: <if PFM then return item ID of the template>
BSH_PFT_MembersCount: <if PFT then return number of members>



PartFamily information

#Chris 29.03.2016

```
SELECT it.puid FROM PIMANTYPE it
WHERE it.ptype_class = 'ImanRelation'
AND it.ptype_name = 'IMAN_UG_part_family_link'
```

```
$QL 1: PFM Check IMAN_UG_part_family_link
SQL 2: PFM Check Folder Relation OK.
SQL 3: PFT Check PFMMembers via IMAN_UG_part_family_link and Folder Relation
```

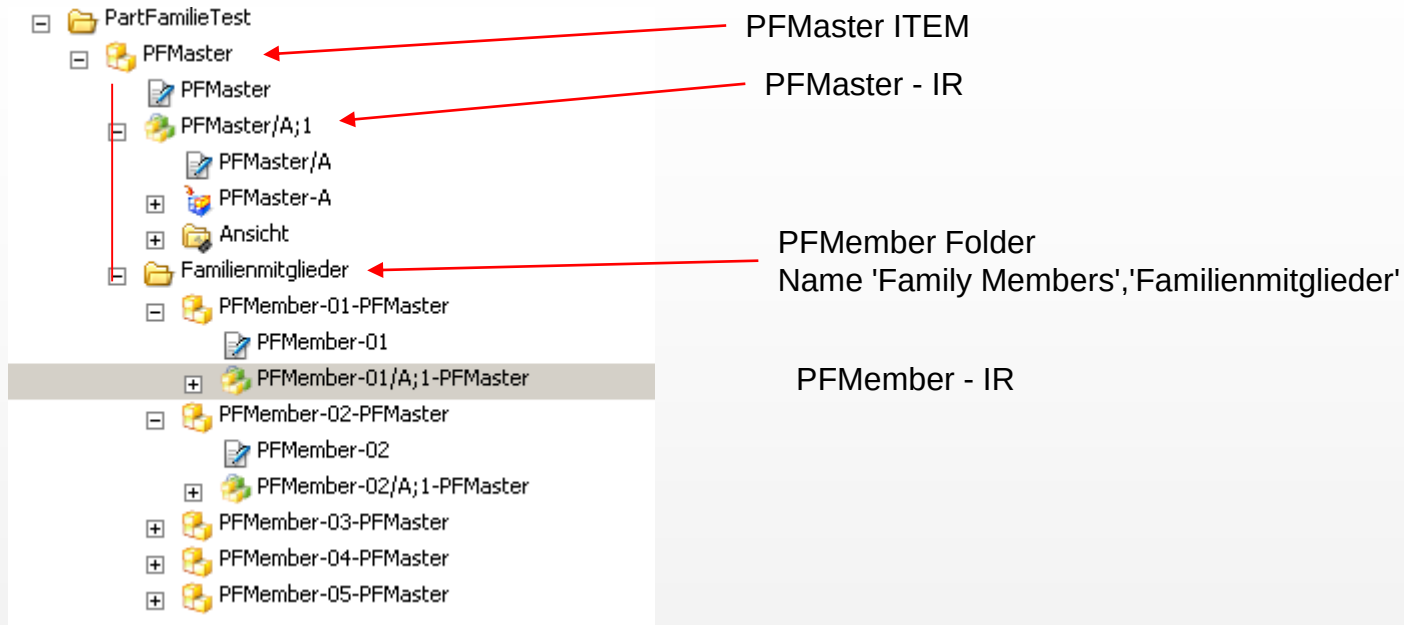
ToDo:

- extend PFM Analyse during Import
- Interate Check in TCDQS

#New: 07.06.2017 / J.Fes

#Lup:

Check 3.6 Missing Part Family Member References



#New: 07.06.2017 / J.Fes
#Lup:

Check 3.6 Missing Part Family Member References

Impact Analysis

Where: Referenced Depth: One Level

60100002281494-Template-60100002281494

- Family Members
 - 60100002281564-Member01-60100002281494
 - 60100002281571-Member02-60100002281571
 - 60100002281494/A1-Template
 - 60100002281494/A2-Template

1-Template-60100002281571

able for one level depth only)

ion: []

60100002281571/A1-Template

Family Members

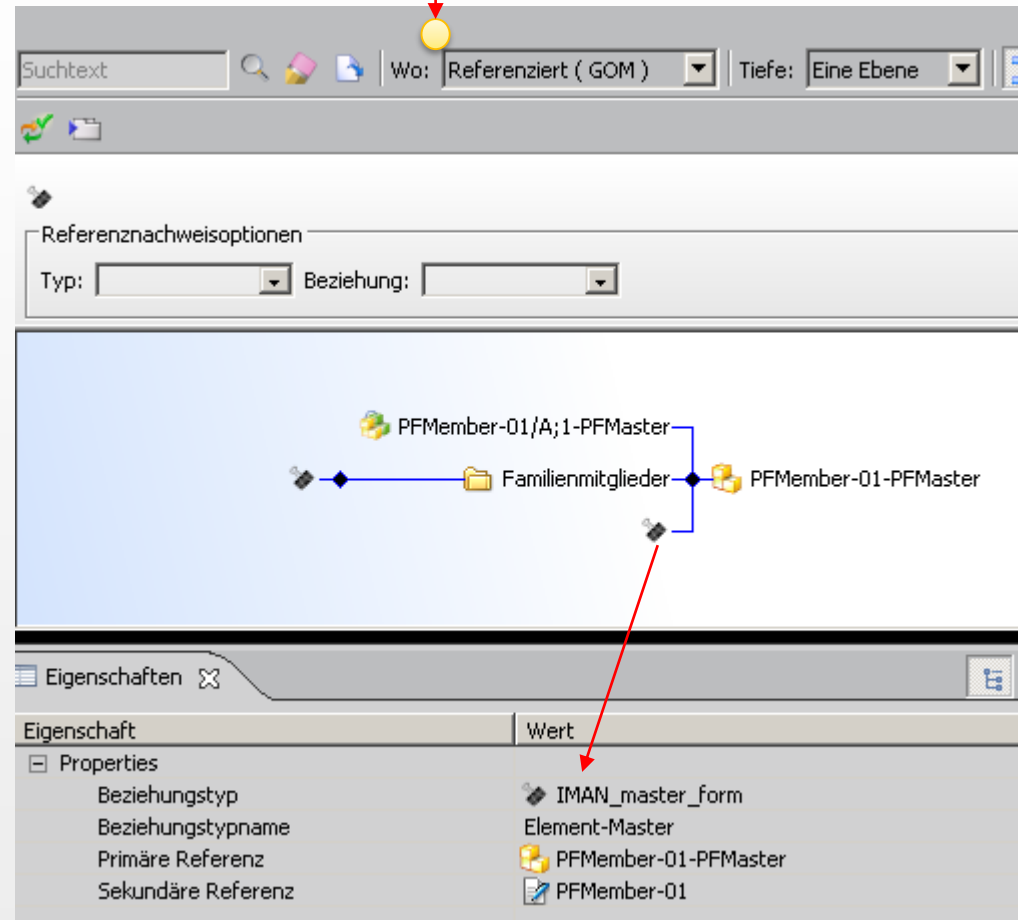
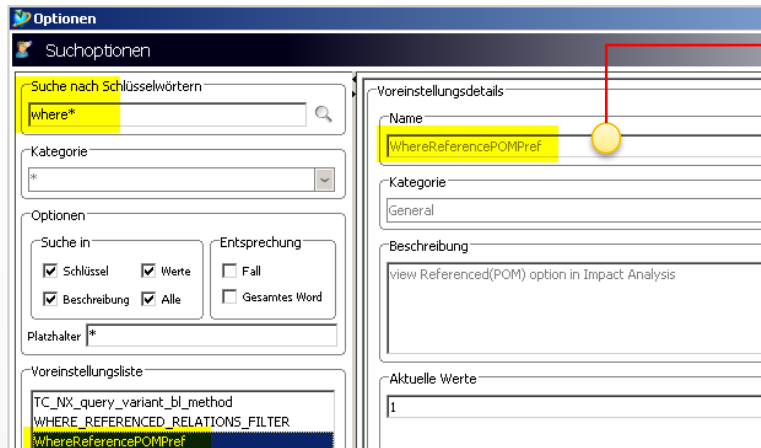
60100002281571-Template-60100002281571

Search Results **Properties**

Property	Value
Is Copy Stable ID Migrated Only?	False
Is Modifiable	True
Is Primary In Sync	False
Primary Reference	60100002281571/A1-Template
Relation Type	IMAN_UG_part_family_link
Relation Type Name	IMAN UG Part Family Link
Secondary Reference	60100002281494/A1-Template

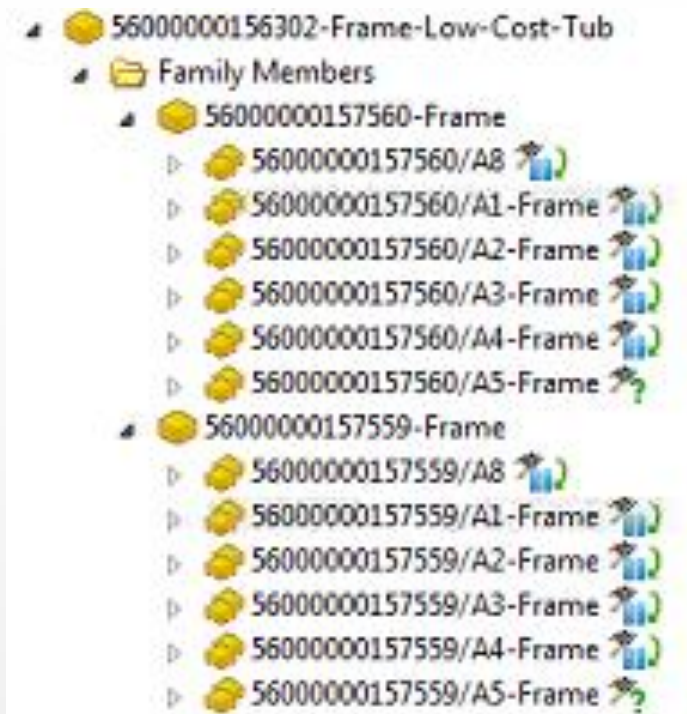
#New: 03.11.2017 / J.Fes
#Lup:

Check 3.6 Missing Part Family Member References



#New: 03.11.2017 / J.Fes
#Lup:

Check 3.6 Missing Part Family Member References



#New: 03.11.2017 / J.Fes
#Lup:

Check 3.6 Missing Part Family Member References

```
-- second check PIMANTYPE table for internal name of the relation
SELECT ptype_name,ptype_class
FROM infodba.PIMANTYPE
WHERE
puid='w4Bp0g$4xrUHOD';
```

Query Result x

SQL | Fetched 500 rows in 0.107 seconds

PTYPE_NAME	PTYPE_CLASS
1 3DMarkup	ImanRelation
2 3DMarkupCreI	3DMarkupCreI
3 3DMarkupSvAI	3DMarkupSvAI
4 ACADDWF	Dataset
5 ACADDWFCreI	ACADDWFCreI

```
-- second check PIMANTYPE table for internal name of the relation
SELECT ptype_name,ptype_class
FROM infodba.PIMANTYPE
WHERE ptype_name = 'IMAN_UG_part_family_link'
puid='w4Bp0g$4xrUHOD';
```

Query Result x

SQL | All Rows Fetched: 1 in 0.058 seconds

PTYPE_NAME	PTYPE_CLASS
1 IMAN_UG_part_family_link	ImanRelation

Worksheet Query Builder

```
-- Duszkievicz Krzysztof 02.01.2017
-- first check puid of displayed name of the relation e.g.:
SELECT *
FROM infodba.PIMANTYPE
WHERE puid = 'AoKpOg_rxrUHOD';
pval_0 LIKE 'en_US%NX Simulations';

-- second check PIMANTYPE table for internal name of the relation
SELECT *
FROM infodba.PIMANTYPE
WHERE ptype_name = 'IMAN_UG_part_family_link'
puid='w4Bp0g$4xrUHOD';
```

Query Result x

SQL | All Rows Fetched: 13 in 0.057 seconds

PUID	PSEQ	PVAL_0	
1 AoKpOg_rxrUHOD	0 de_DE:S:A:0000:		:ImanRelation
2 AoKpOg_rxrUHOD	1 en_US:S:A:0000:		:ImanRelation
3 AoKpOg_rxrUHOD	2 es_ES:S:A:0000:		:ImanRelation
4 AoKpOg_rxrUHOD	3 fr_FR:S:A:0000:		:ImanRelation
5 AoKpOg_rxrUHOD	4 it_IT:S:A:0000:		:ImanRelation
6 AoKpOg_rxrUHOD	5 pt_BR:S:A:0000:		:ImanRelation
7 AoKpOg_rxrUHOD	6 ca_CZ:S:A:0000:		:ImanRelation
8 AoKpOg_rxrUHOD	7 ja_JP:S:A:0000:		:ImanRelation
9 AoKpOg_rxrUHOD	8 ko_KR:S:A:0000:		:ImanRelation
10 AoKpOg_rxrUHOD	9 pl_PL:S:A:0000:		:ImanRelation
11 AoKpOg_rxrUHOD	10 ru_RU:S:A:0000:		:ImanRelation
12 AoKpOg_rxrUHOD	11 zh_CN:S:A:0000:		:ImanRelation
13 AoKpOg_rxrUHOD	12 zh_TW:S:A:0000:		:ImanRelation

#New: 03.11.2017 / J.Fes
#Lup:

Check 3.6 Missing Part Family Member References

see 3.6 in data quality settings

results for this check are on item revisions

error code 361: part family member (pfm) not refferenced to pfm folder of template

error code 362: part family master has no part famliy members

error code 363: part family master has no part family folder

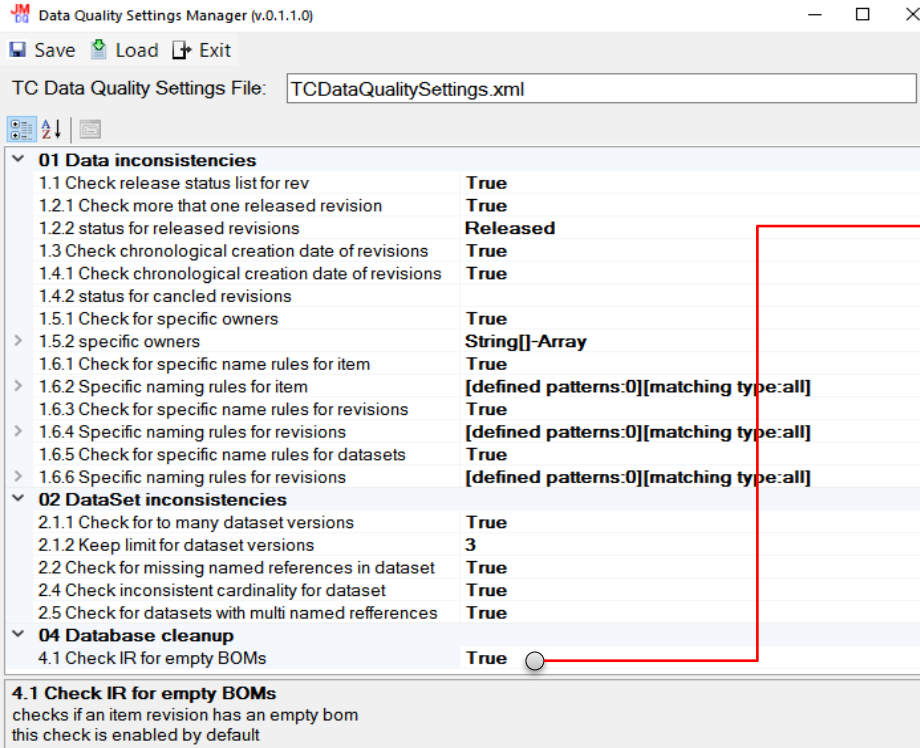
TC Data Quality Settings File:

01 Data inconsistencies		
1.1.1 Check release status for rev	ON_Dif_asERR	
1.1.2 Settings for release status consistency for dataset types	String[]-Array	
1.1.3 Settings for release states	(Sammlung)	
1.2.1 Check more than one released rev	ON_Dif_asERR	
1.2.2 status for released revisions	Released	
1.3.1.1 Check chronological order for 'ItemRev - Rel.Status - Rel.Date' bse/behavior	ON_Dif_asERR	
1.3.1.2 Check chronological order for 'ItemRev - Rel.Status - Rel.Date' set eXclude	String[]-Array	
1.3.2 Check chronological order for 'Creation Date of IR's'	ON_Dif_asERR	
1.5.1 Check for specific owners	ON_Dif_asERR	
1.5.2 specific owners	String[]-Array	
1.6.1.1 Check for specific name rules for item	ON_Dif_asERR	
1.6.1.2 Specific naming rules for item	[defined patterns:0][matching type:all]	
1.6.2.1 Check for specific name rules for revisions	ON_Dif_asERR	
1.6.2.2 Specific naming rules for revisions	[defined patterns:0][matching type:all]	
1.6.3.1 Check for specific name rules for datasets	ON_Dif_asERR	
1.6.3.2 Specific naming rules for datasets	(Sammlung)	
02 DataSet inconsistencies		
2.1.1 Check for to many dataset versions	ON_Dif_asERR	
2.1.2 Keep limit for dataset versions	3	
2.2 Check for missing named references in dataset	ON_Dif_asERR	
2.4 Check inconsistent cardinality for dataset	ON_Dif_asERR	
2.5 Check for datasets with multi named references	ON_Dif_asERR	
03 Database inconsistencies		
3.6 Check for missing part family references	ON_Dif_asERR	
04 Database cleanup		
4.5 Check IR for empty BOMs	ON_Dif_asERR	

#New: 03.11.2017 / J.Fes
#Lup: 08.11.2017 / S.Gueth

TC Data Quality Check Details

Categorization of the issues (2of2)



Pos	Description:	Note	ResultCode
4 Database Cleanup			
4.2.	POM Stub Objects	Identify BOM's / IR's containing POM Stub Objects 07.06.17 see details on Slide Check 4.2 POM Stub Objects	
4.5.	Empty BOMs	list can be delivered right away 07.06.17 see change R.Code	410 Change to 450
4.7	AppUID	List Missing APPUIDS via SQL and re-create in front of refile 07.06.17 No integration needed because Object are created via refile	
4.11	Purge Datasets/ Revisions	see 2.1 will be done during refile 07.06.17 Action is Done with last Refile	
5 Multisite Cleanup			
5.2	Owning Site correction	obsolete	
5.3	Missing Revision	obsolete	
5.4	Multiple Revisions with same ID	obsolete	

Check 4.2 POM Stub Objects

4.2. POM Stub Objects

Removal of not used POM Stub objects. This comes from the migration
Some objects point to stub which were never imported to the system. The stubs and the relations must be deleted, or the objects created instead of stub

Chris : 16.03.2016 : Example of STUB in BOMViewRevision due to missing ItemRevision

BOM Line	Find No.	Rule configured by	Item Rev Status	Item Description
56500000065315/F10-Assembly gear brewing-unit V3 (View)			Tool Order	
5090000001005113/C3-Gear-case middle II	150	Precise	Tool Order	Getriebegehäuse mitteteil.
56500000067759/E4-Gear case top	160	Precise	Released	KVA
56500000067757/F5-Gear case bottom	270	Precise	Released	Getriebegehäuse unterteil
50900000001822/E1-Worm-wheel	280	Precise	Tool Order, Released	Wormwheel
50900000001829/A1-Steel ball dia4mm	290	Precise	Tool Order, Released	50900000001829
50900000001829/A1-Steel ball dia4mm	300	Precise	Tool Order, Released	50900000001829
50900000001827/C1-Sleeve	310	Precise	Released	50900000001827
50900000001821/C1-Assembly Motor Brewing-Unit (View)	320	Precise	Released	
<<REMOTE OBJECT>>	330	No configured Revision		
56500000041560/C1-Assembly switches BU state TE7 ZF (View)	340	Precise	Quotation, Tool Orde...	
<<REMOTE OBJECT>>	360	No configured Revision		
56500001163794/A3-Asm Switches BU State 60 (View)	370	Precise	Tool Order	56500001163794
<<REMOTE OBJECT>>	380	No configured Revision		
<<REMOTE OBJECT>>	390	No configured Revision		

Such an assembly cannot be opened

Example:
POM Stub's

Result.Msg In this case
BOMStubs:ERR 4n

ToDo:
- Review Methodes
- mybe analyse during JS.Import

Results:

add to IR the numbers (n) of BOM Stubs in BOM

```

PSPad - [V:\JobManager\ProgEntw\Ver03\JobManager\3\01-BinServer\Resources\TcSQL\BOMc_ImPrecise_TCUA.SQL]
File Projects Edit Search View Format Tools HTML Settings Window Help(x)

1.. BOMc_ImPrecise_TCUA.SQL
0 10 20 30 40 50 60 70 80
1 /* TCUA BOMc ImPrecise: BOMLi Rev.Rule:latest.or L.Up 20.01.15 */
2 SELECT ItemID ,
3 IrID ,
4 IrPuid ,
5 count(*) AS BOML
6 from
7 (
8 SELECT
9 iBOML.pitem_id AS ItemID,
10 irBOML.pitem_revision_id AS IrID,
11 irBOML.puid AS IrPuid,
12 rank() over (partition BY iBOML.puid ORDER BY paoIrBOML.pcreation_date DESC) AS rnk
13 FROM
14 infodba.PITEM iBOM
15 INNER JOIN infodba.PITEMREVISION irBOM ON (iBOM.puid = irBOM.ritems_tagu)
16 INNER JOIN infodba.PSTRUCTURE_REVISIONS ps ON (irBOM.puid = ps.puid)
17
18 INNER JOIN infodba.PPSBOMVIEWREVISION bvr ON (ps.pvalu_0 = bvr.puid)
19 INNER JOIN infodba.PPSOCCURRENCE bo ON (bvr.puid = bo.rparent_bvru)
20 INNER JOIN infodba.PITEM iBOML ON (bo.rchild_itemu = iBOML.puid)
21 INNER JOIN infodba.PITEMREVISION irBOML ON (iBOML.puid = irBOML.ritems_tagu)
22
23 LEFT JOIN infodba.PPSBOMVIEW bv ON (bvr.rbom_viewu = bv.puid)
24 LEFT JOIN infodba.PPSVIEWTYPE bvt ON (bvt.puid = bv.rview_typeu)
25
26 LEFT JOIN infodba.PWORKSPACEOBJECT irBOMlpwo ON (irBOML.puid = irBOMlpwo.puid)
27 LEFT JOIN infodba.PPOM_APPLICATION_OBJECT paoIrBOML ON (irBOML.puid = paoIrBOML.puid)
28
29 WHERE
30 irBOM.puid = :para_ir_puid
31 AND irBOMlpwo.pactive_seq = 1
32 AND upper(bvt.pname) in ('VIEW', 'CATIA_MULTI_MODEL', 'CATIA')
33 ) t
34 where rnk = 1
35 GROUP BY ItemID, IrID, IrPuid

```

Values are null in case of
BOM Stubs

#New: 07.06.2017 / J.Fes
#Lup:

05.10.2017 Check

```

Job:[PLMEU_TCDDataQuality_M_02036_BSH] [PLMEU] [Start:2017-10-05 13:44:39] [\\S10WTCNGSVC1] [bsh-nx-refile-user]
JCT.Version.....: 3.1432.510.2017
Action.Version.....: V2017-10-04.01/J.Fes+S.Gueth
Action.Name.....: TCDDataQuality_2016_09
Action.SubAction.....: TCDDataQualityCheckVer1
Title.....: JobData2Result.xml
Job.Name.....: PLMEU_TCDDataQuality_M_02036_BSH
Job.Start.....: 05.10.17 13:44
Job.End.....: 05.10.17 13:44
Job.Duration.....: 23,31(sec)

Object: PLMEU:56500000012558 SP
P.Data: [P.Stat:D.OK][P.ResCode:0][P.WRN:False][P.Msg:[ReleasedState:OK][OwnUsr:OK]][P.MsgExtend:][P.Lnk:][P.PrgUSEDv:][P.Object.SAVEv:]
Object: PLMEU:56500000012558/A1 SP
P.Data: [P.Stat:D.OK][P.ResCode:0][P.WRN:False][P.Msg:[StatLi:OK][CreationDate:OK][ReleaseDate:OK][OwnUsr:OK][IrBomEmpty:OK]][P.MsgExtend:][P.Lnk:][P.PrgUSEDv:][P.Object.SAVEv:]
Object: PLMEU:56500000012558/A1/master/56500000012558-a1 SP
P.Data: [P.Stat:D.ERR][P.ResCode:250][P.WRN:False][P.Msg:[OwnUsr:OK][DSVer:OK][MissingNamedRef:OK][MultiRefIR:OK][MultiNamedRefs:ERR]][P.MsgExtend:][P.Lnk:\\s100fsc1210.bsh.corp.bshg.com\nx_mcad\JobMgr\90-DATA\BSH_WorkInst_ProdSystem02\12-Data\PLMEU\56500\56500000012558\A1\DO_V1_Res_56500000012558-A1_master_56500000012558-a1.txt][P.PrgUSEDv:][P.Object.SAVEv:]

Num: Object:          SP/AP R.State: R.Code: R.WRN: R.Msg:          P.Start:          P.End:
-----
1/3 PLMEU:56500000012558 SP D.OK 0 False [ReleasedState:OK][OwnUsr:OK] 05.10.17 13:44 05.10.17 13:44
2/3 PLMEU:56500000012558/A1 SP D.OK 0 False [StatLi:OK][CreationDate:OK][ReleaseDate:OK][OwnUsr:OK][IrBomEmpty:OK] 05.10.17 13:44 05.10.17 13:44
1/3 PLMEU:56500000012558/A1/master/56500000012558-a1 SP D.ERR 250 False [OwnUsr:OK][DSVer:OK][MissingNamedRef:OK][MultiRefIR:OK][MultiNamedRefs:ERR] 05.10.17 13:44 05.10.17 13:44

JCT: End:[TCDDataQuality_2016_09] completed:[YES] at:[2017-10-05 13:44:54]
PJCT Pause.....: Actions:[TCDDataQuality_2016_09] ends:[2017-10-05 13:44:54] ResCode:[0]

(Key F12 ends 'Pause Mode') please press 'any key' to continue:

```

17.01.2018 – Meeting with Krzysztof

J:\S:\ProdSystem02 BSH\JobServer\FE0VM2275.euce.corp.bshg.com:13000 [V3.1444 (Build:11.12.2017) (c) Dipl.Ing. J.Feuerstein 2005..2017]

ItemRevision error codes and examples

ERR 361 – Part Family Member (PFM) is not referenced to 'Family Members' folder of Part Family Template (PFT)

- 56500442132P99-Hook-In Rack Bo/Se template-IC6 full size Bo/Se template
 - Family Members
 - 56500442132P01-Hook-In Rack-IC6 full size Bosch/Siemens
 - 56500442132P02-Hook-In Rack-IC6 full size Bosch/Siemens
 - 56500442132P31-Hook-In Rack-IC6 full size 5/3 Bosch/Siemens
 - 56500442132P32-Hook-In Rack-IC6 full size 5/3 Bosch/Siemens
 - 56500442132P35-Shelf HG/SE new right-IC6 Gestell rechts Auszug EHL 2 3 Dampf
 - 56500442132P36-Shelf HG/SE new left-IC6 Gestell links Auszug EHL 2 3 Dampf
 - 56500442132P11-Hook-In Rack-IC6 full size 5/1 Bosch/Siemens
 - 56500442132P12-Hook-In Rack-IC6 full size 5/1 Bosch/Siemens
 - 56500442132P21-Hook-In Rack-IC6 full size 5/2 Bosch/Siemens



```

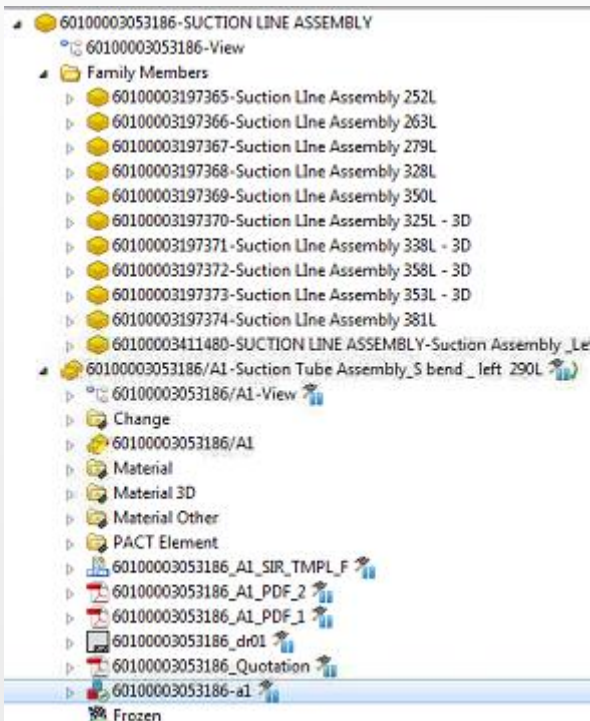
0
1 TC Data Quality Eval.: (V2017)
2 Date.....: 2017-01-17
3 Object.....: @DB/6
4
5
6 ++Error: C5_DS:PFFolderRef: [F
7 | -> 60100003053186/A1.....
8

```

17.01.2018 – Meeting with Krzysztof

J5:[ProdSystem02 BSH] JobServer:[FE0VM2275.euce.corp.bshg.com:13000] [V3.1444 (Build:11.12.2017) (c) Dipl.Ing. J.Feuerstein 2005..2017]

```
1 TC Data Quality Eval.: (V2017-10-04.01/J.Fes+S.Gueth)
2 Date.....: 2017-12-31 16:56:29
3 Object.....: @DB/60100003053186/A1
4
5
6 ++Error:C5_DS:PFFolderRef:[PFMaster not refferenced to PFFolder]
7 |-> 60100003053186/A1.....: Value [PFMaster ItemId: 60100003053186]
```



05.02.2018 – Meeting Krzysztof – Sascha - Josef

Mapp Check Nummer and Error Codes

ERR 132 – Date Created of ItemRevisions are not in chronological order

9 437 item revisions affected

Example: 50800000002237/A1

```
++Error:C1_RelStat:CreationDate:[creation dates of item revisions are not in chronological order]
|-> 50800000002237/A1.....Value.....
|-> 50800000002237/A2.....Value.....
|-> 50800000002237/B1.....Value.....
|-> 50800000002237/C1.....Value.....
|-> 50800000002237/D1.....Value.....
|-> 50800000002237/D2.....Value.....
|-> 50800000002237/E1.....Value.....
```

01 Data inconsistencies	
1.1.1 Check release status for rev	O
1.1.2 Settings for release status consistency for dataset types	S
1.1.3 Settings for release states	(S)
1.2.1 Check more than one released rev	O
1.2.2 status for released revisions	R
1.3.1.1 Check chronological order for 'ItemRev - RelStatus - RelDate' bse/behavior	O
1.3.1.2 Check chronological order for 'ItemRev - RelStatus - RelDate' set eXclude	S
1.3.2 Check chronological order for 'Creation Date of IR's'	O
1.5.1 Check for specific owners	O
1.5.2 specific owners	S
1.6.1.1 Check for specific name rules for item	O
1.6.1.2 Specific naming rules for item	[C]
1.6.2.1 Check for specific name rules for revisions	O
1.6.2.2 Specific naming rules for revisions	[C]
1.6.3.1 Check for specific name rules for datasets	O
1.6.3.2 Specific naming rules for datasets	(S)
02 DataSet inconsistencies	
2.1.1 Check for too many dataset versions	O
2.1.2 Keep limit for dataset versions	3
2.2 Check for missing named references in dataset	O
1.5.1 Check for specific owners	
checks if there are objects which are owned by specific users define if this check should be tested as an error or warning or failure (default is error) or	

51400000006219-freezer door innerliner-595*713*540 width door

- 51400000006219/A-freezer door innerliner
- 51400000006219/A1-freezer door innerliner
- 51400000006219/B1-freezer door innerliner
- 51400000006219/C1-freezer door innerliner
- 51400000006219/D1-freezer door innerliner
- 51400000006219/E1-freezer door innerliner

Object	Type	Date Released	Status
51400000006219/A-freezer door innerliner	CADItem Revision	13-Sep-2004 03:17	Frozen
Frozen	ReleaseStatus	13-Sep-2004 03:17	
51400000006219/A1-freezer door innerliner	CADItem Revision	04-Nov-2004 06:23	Archived
Archived	ReleaseStatus	04-Nov-2004 06:23	
51400000006219/B1-freezer door innerliner	CADItem Revision	26-Mar-2007 04:18	Archived
Archived	ReleaseStatus	26-Mar-2007 04:18	
51400000006219/C1-freezer door innerliner	CADItem Revision	26-Mar-2007 04:24	Archived
Archived	ReleaseStatus	26-Mar-2007 04:24	
51400000006219/D1-freezer door innerliner	CADItem Revision	26-Jun-2008 10:45	Released
Released	ReleaseStatus	26-Jun-2008 10:45	
51400000006219/E1-freezer door innerliner	CADItem Revision	09-Jul-2015 02:45	Tool Order
Tool Order	ReleaseStatus	09-Jul-2015 02:45	

```
++Error:C1_RelStat:CreationDate:[creation dates of item revisions are not in chronological order]
|-> 51400000006219/A1.....Value.....[13.09.2004-01.30.08]
|-> 51400000006219/A.....Value.....[13.09.2004-01.16.37]
|-> 51400000006219/B1.....Value.....[26.03.2007-02.00.48]
|-> 51400000006219/C1.....Value.....[26.03.2007-02.21.04]
|-> 51400000006219/D1.....Value.....[23.06.2008-01.31.33]
|-> 51400000006219/E1.....Value.....[29.06.2015-05.52.12]
```

Sort Order

ER: Review revision List sorting for above mentioned exception

#Backup

Backup

TC Data Quality Check Details

DataPools:

DP1 – TC via SQL

DP2 – JobMgr. DB

DP3 – JobMgrDataOrg Root dir (xml files)

Methoden / Konzept:

Checkprozesse via CMD-Tools

Overview TC - DataCheck

MSC: Identify Data to Sync

MSC: Multi-Site Consistent Check

MSC:Check Rules

MSC: Completeness Analyse

MSC: Integr. in PLMJobManager

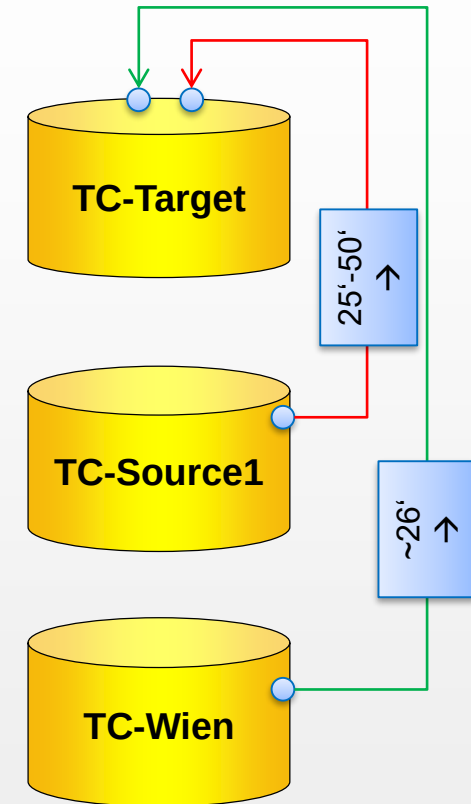
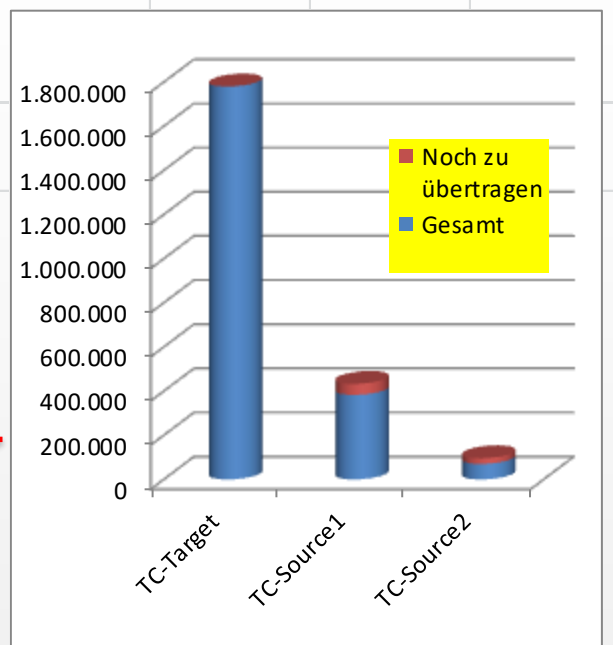
DQC: TC data quality check for NX related data

Glossar Keys: **MSC**: Tc - Multisite Check // **DQC**: Tc - Data Quality Check

Daten Mengen Basierend auf dem Stand des Test Systems vom 12/2015

Zu übertragende Datenmengen

Site	Gesamt	Noch zu übertrage
TC-Target	1.780.000	0
TC-Source1	382.973	<u>50.000</u>
TC-Source2	70.000	<u>26.000</u>



1 f.Site: BSWP10 (BSW_Wi) Own.Site: BSWP10 (E)
 O.Last.Expo.Date < O.Last.Mod.Date or not Exported ☒

- Konsistenz Prüfung via SQL → Kandidaten + Lösung
- Vollständigkeit Analyse → Check Stand der existierenden Übertragungen von TC-P oder TC-W Richtung TC-Leng

addPLM:

- alles Syncen von TC-P + TC-W nach TC-Leng
- alle deren Hoheit oder Existenz unklar ist → Analyse
- + Alle die unvollständig sind

Extended Multi-Site Consistent Check: Check Rules Basics

1. Check if the item-id exists on all exported sites with the same PUID → mark as “check sync status”
2. Check if the item-revisions exist on all exported sites with the same PUID's → mark as “check sync status”
(we don't need to check the datasets, because when datasets are missing, then item is probably not synced → owning site will be renamed and automatically be synced when sync process is enabled again)

Tasks to do:

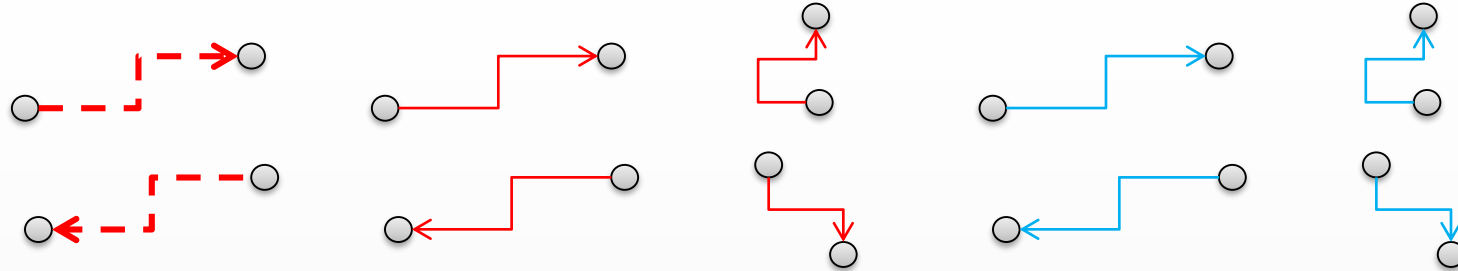
- Proof performance if only revisions will be requested (Method 1) → decide if method 1 or 3 should be used
- If method 3:
 - Need to create tsql script based on the rules above
- Enhance JobManager to rename objects after processing the objects successfully
- Finishing, testing, enhancing the job management

Usage via SQL Script:

ASML_11to12nc_JobMgr_ProcessItemsV2_MultiSideCheckPhase1.sql

Hilfsmittel - Designs

1
2



XX	XX
XX	XX
XX	XX
XX	XX
XX	XX
XX	XX
XX	XX