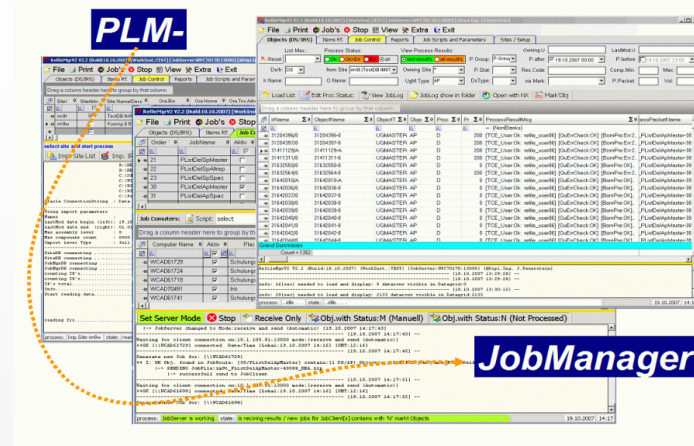




Documentation: TC Multisite 'Quality Check' and 'Migration'

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Content

Overview

Identify Data to Sync

Multi-Site Consistent Check

Check Rules

Completeness Analyse

Integr. in PLMJobManager

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.

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Content

Overview

Identify Data to Sync

Multi-Site Consistent Check

Check Rules

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Integr. in PLMJobManager

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

Identify Data to Sync

Multi-Site Consistent Check

Check Rules

Completeness Analyse

Integr. in PLMJobManager

Consistent Check: Check Rules

Check (1) Item Owings Site consistens

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

Example for [TRUE]: → goto Check (2)

ItemId	PuID	fSiteID	oSiteId	exportToSiteIds
01	01	VDH	VDH	SAN;WLT
01	01	SAN	VDH	
01	01	WLT	VDH	

SiteObject Item
does not exist

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

ItemId	PuID	fSiteID	oSiteId	exportToSiteIds
01	01	VDH	VDH	SAN;WLT
01	01	SAN	VDH	
01	01	WLT	VDH	
01	02	ACE	ACE	

Item with same ItemID
and other PUID exists

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

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

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

ItemId	PuID	fSiteID	oSiteId	exportToSiteIds
02	01	VDH	VDH	SAN;WLT;ACE
01	01	SAN	VDH	
01	01	WLT	VDH	
01	01	ACE	VDH	

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

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

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	

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

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

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

Content

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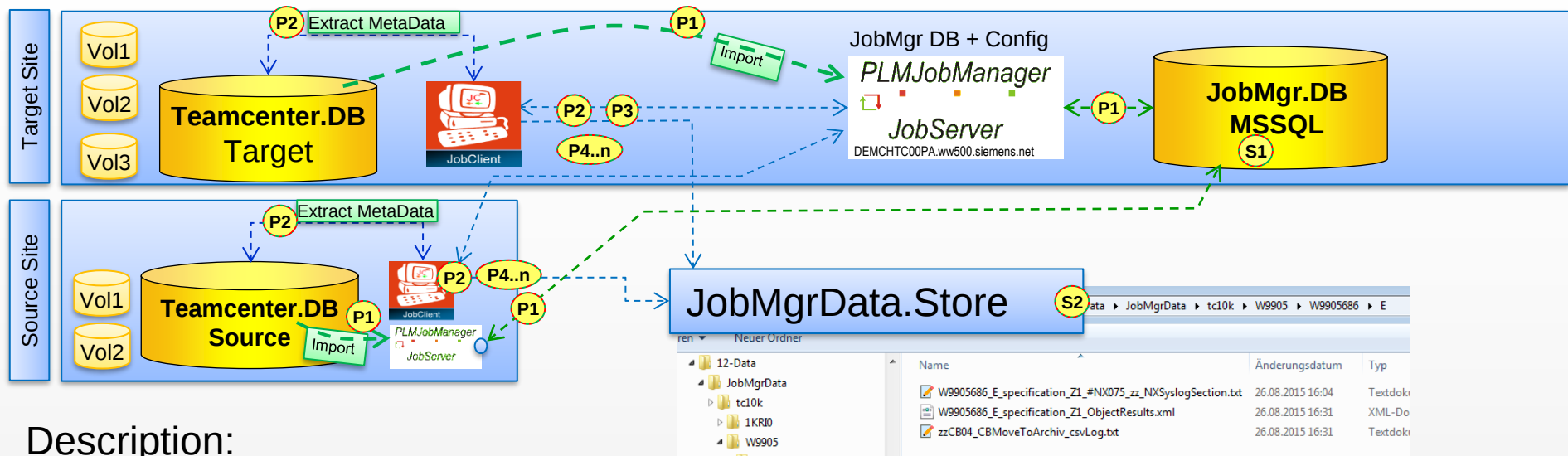
Multi-Site Consistent Check

Check Rules

Completeness Analyse

Integr. in PLMJobManager

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

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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 shows the PLMJobManager GUI. At the top, there's a search bar and several icons. Below that, a table lists process groups with columns for Ir.Id, O.Nam, I, O.Type, O, O.LastModDate, O.LastM, O.SP/AP, O.P.Mc [TC.MC], O.AP, O.A.P, and O.P.01 [Generic]. A red circle with the number '2' highlights the 'P.Mc [TC.MC]' dropdown menu. A red arrow points from this circle to a context menu that appears when right-clicking on a row. The context menu has a title '02 - ProcessGroup settings extendet. Mc+Rf' and a sub-item 'ProcessGroupMc'. Under 'ProcessGroupMc', there are four items: 'Process Group: Name' (TC.MC), 'Process Group: Description' (TC-MultiSite Q-Check and Migration), 'Process Group: Activ' (True), and 'Process Group: Settings Group' (TC.MC). A red circle with the number '1' highlights the 'Run ,MultiSite chk'' button in the context menu.

Ir.Id	O.Nam	I	O.Type	O	O.LastModDate	O.LastM	O.SP/AP	O.P.Mc [TC.MC]	O.AP	O.A.P	O.P.01 [Generic]
65010000537/000	650100 0537_000	0	UGMASTER	NF	14.06.2007 13:16	henga	SP	X.OutOfSync1.0 (ItemId/It...	0	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	NF	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
 - Process Group: Description TC-MultiSite Q-Check and Migration
 - Process Group: Activ True
 - Process Group: Settings Group TC.MC

Run ,MultiSite chk'

New Functions

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→ is working against a Process Group MC **(2)**
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