

From
RBEI/BSC

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29 July 2014

ETAS Use case 2: Attaching and Detaching a collection from PROD to TEST

RBEI/BSC

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1 Use case

Detach and Attach a Project Collection in Team Foundation Server from one environment to another.

2 Scope and Purpose

The scope of this document is to provide the know-how of the steps to be implemented while detaching and attaching a project collection in TFS from one environment to another.

The purpose of this document is to put down all the details and implementation steps that will require to implement the above the use case.

3 Audience

This document can be used by all the ETAS TFS Administrators for implementing the steps as part of this use case.

4 Header Information

| | |
|------------------------|--|
| Name of Document | UseCase2-TFSCopySystems.docx |
| Prepared by | Sunil Kumar Rana(RBEI\BSC2-TDP) |
| Reviewed by | Frank Beckmann (ETAS/ICO) |
| Duration of Transition | 2 weeks i.e. 28-07-2014 to 09-08-2014 |
| End User | All users working with ETAS TFS Tool for carrying out their project related activities |

5 Revision History

| Issue | Version | Date | Editor | Description of amendment |
|-------|---------|------------|------------------|--------------------------|
| 1 | 1.0 | 05-08-2014 | Sunil Kumar Rana | Initial |
| | | | | |

6 Necessary tools and other permissions

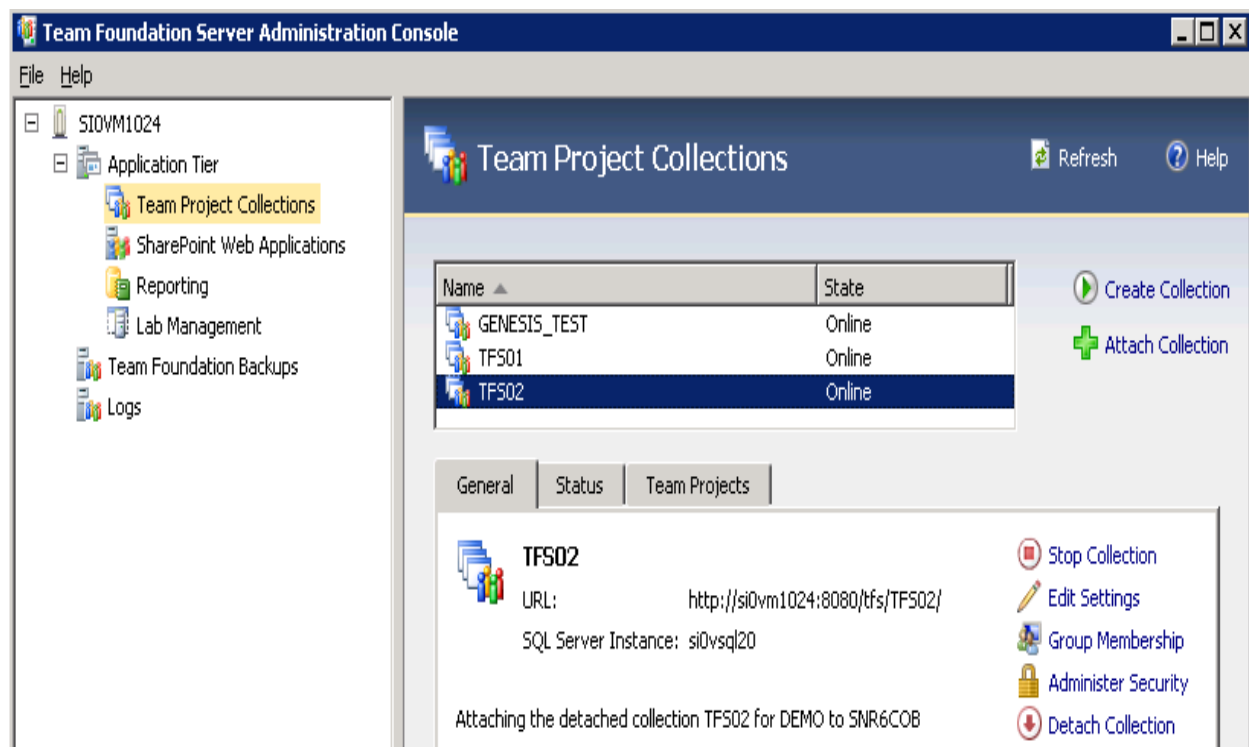
- You need to have administration access to login in to machine that has the TFS Server running as a console.
- Inform Customer and any stakeholder if you are performing the operation on Prod System.

7 Implementation Steps

Supposing that we are detaching and attaching the project collection from PROD To QUALITY System, then we are supposed to implement the below steps.

7.1 Detach the collection on Prod

Now, you can detach the collection from test environment using the TFS Console. This can be done by getting into TFS Console → Server Name → Application Tier → Team Project Collections.



After providing proper reasons and messages, you can detach the collection

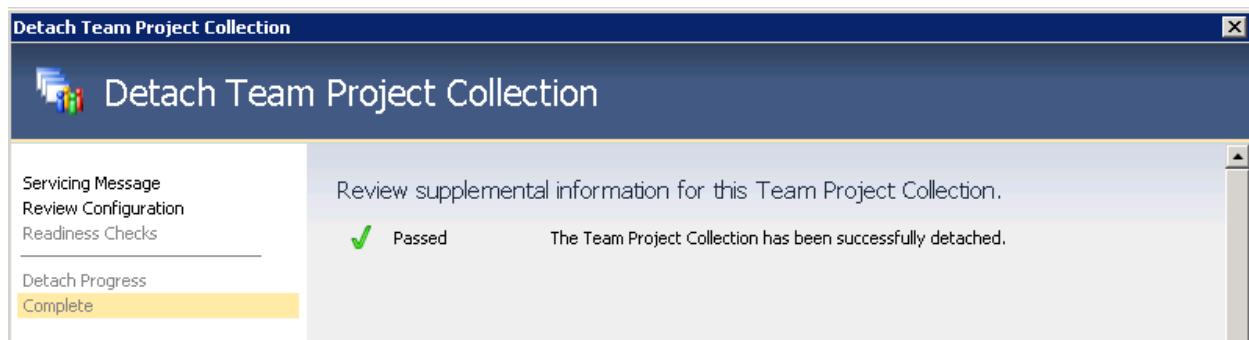
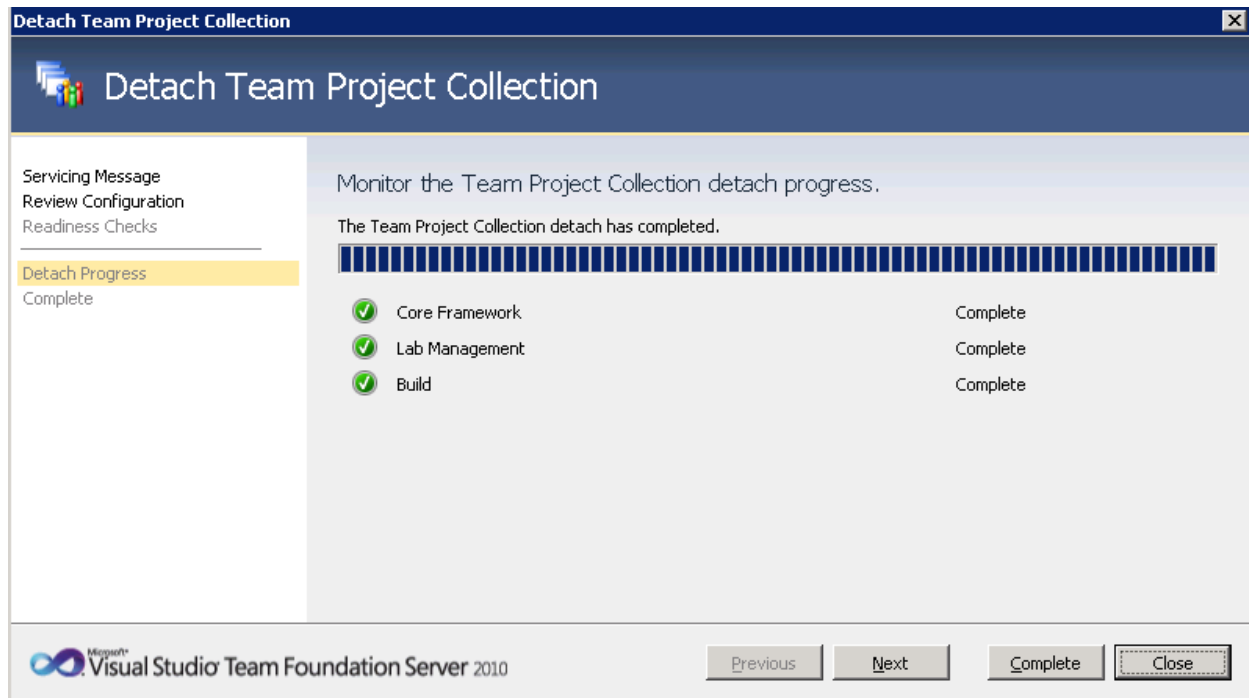
Detach should and must happen without any problems and should not report any errors after performing the detach operation. A successful detach is shown below.

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Click on Close button to finish the operation.

This command can be also done in the command prompt by supplying the below instructions.

```
C:\Program Files\Microsoft Team Foundation Server 2010\Tools\TFSCfg.exe Collection /detach /
collectionname:TFS01
```

7.2 Back up the database

Take a complete back up of the database of the project collection on Prod. If you do not have enough permission on SQL Server, then you can request the CI-Hotline to take a complete back up of the database.

This must and should be a full back up of the database *TFS_TFS01* and *TFS_EHI_ALL*.

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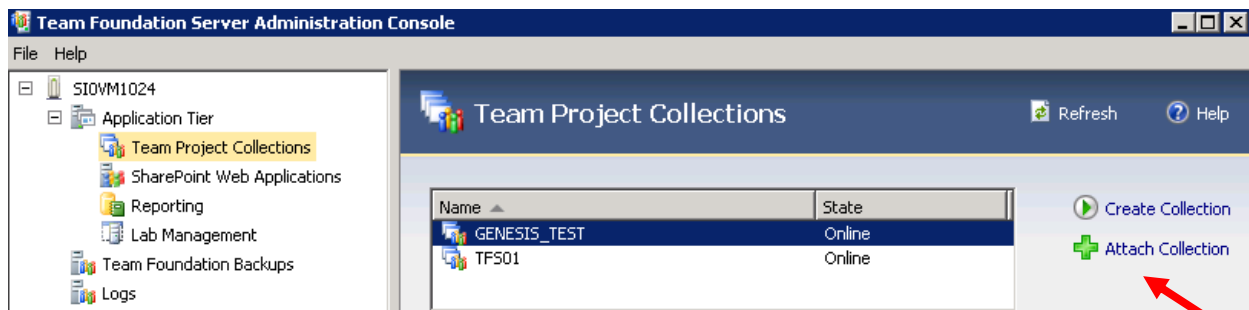
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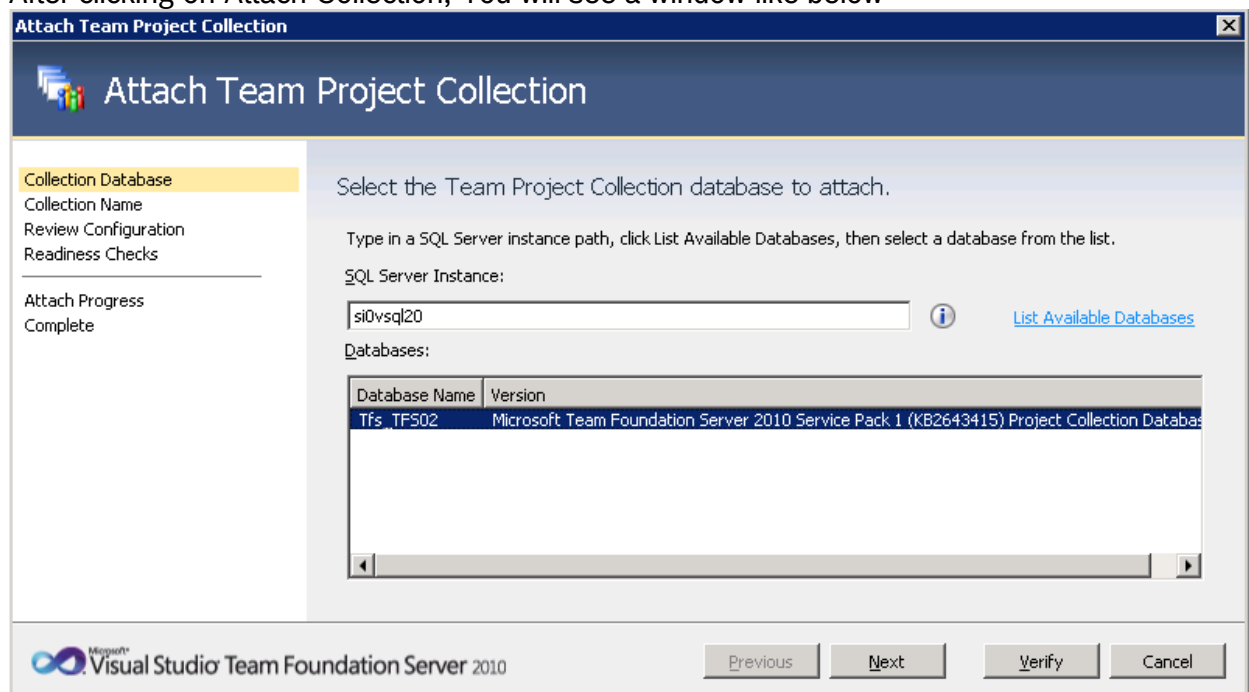
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7.3 Attach the collection

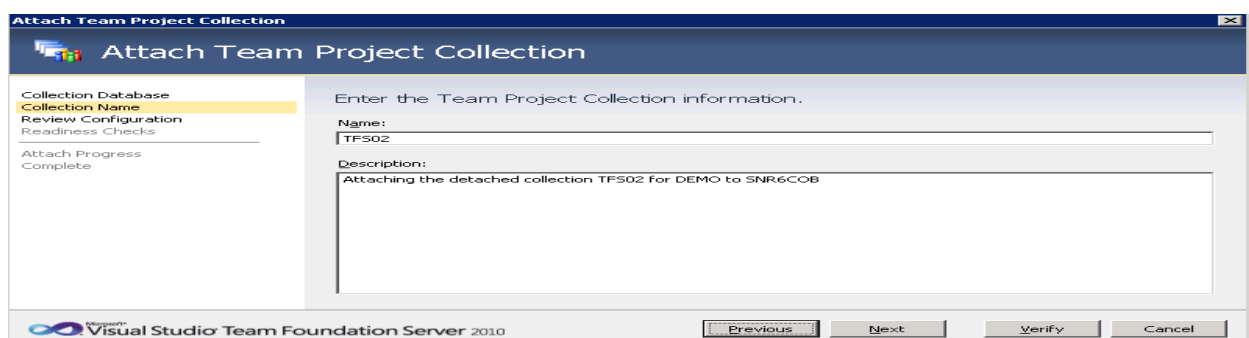
After the restore of the database from Prod to Quality, You can now proceed with attaching the collection by simply clicking on “Attach Collection” available on the top right window of the TFS Console at TFS Console → Server Name → Application Tier → Team Project Collections



After clicking on Attach Collection, You will see a window like below



Click Next.



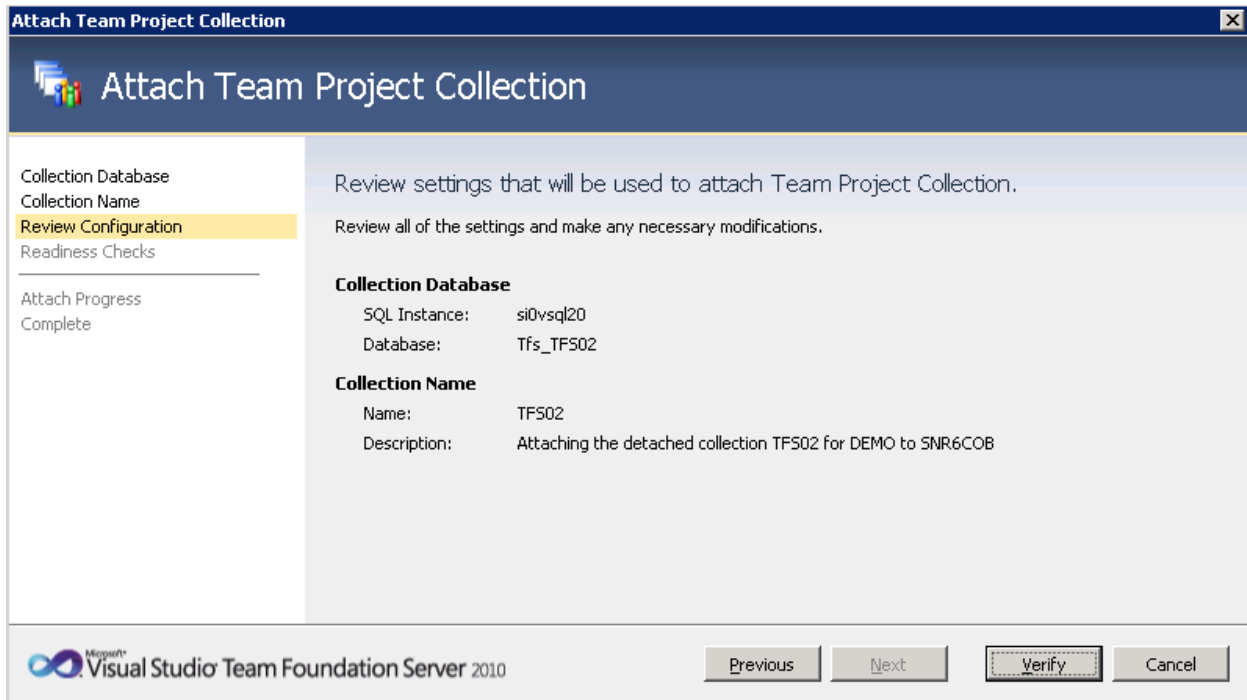
Click Next Again after putting in proper messages.

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Attach Team Project Collection

Collection Database
Collection Name
Review Configuration
Readiness Checks

Review settings that will be used to attach Team Project Collection.
Review all of the settings and make any necessary modifications.

Collection Database
SQL Instance: si0vsq120
Database: Tfs_TFS02

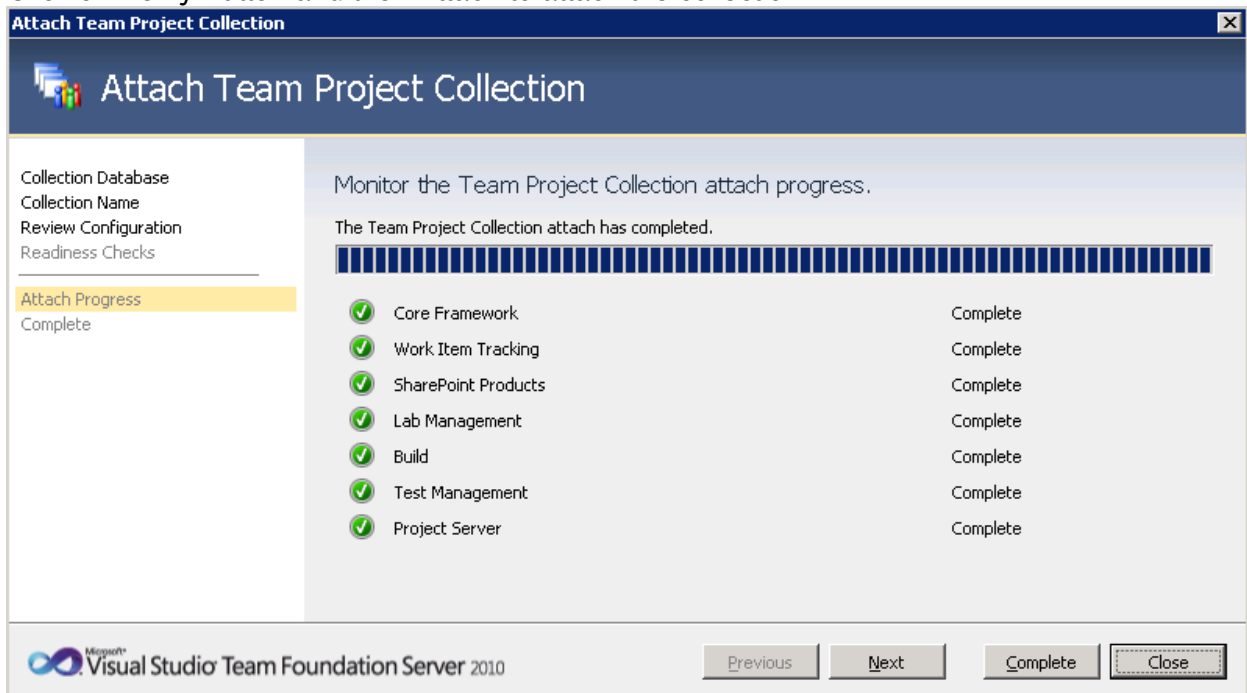
Collection Name
Name: TFS02
Description: Attaching the detached collection TFS02 for DEMO to SNR6COB

Attach Progress
Complete

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Previous Next Verify Cancel

Click on Verify Button and then Attach to attach the collection.



Attach Team Project Collection

Collection Database
Collection Name
Review Configuration
Readiness Checks
Attach Progress
Complete

Monitor the Team Project Collection attach progress.
The Team Project Collection attach has completed.

100% Progress Bar

| | |
|-----------------------|----------|
| ✓ Core Framework | Complete |
| ✓ Work Item Tracking | Complete |
| ✓ SharePoint Products | Complete |
| ✓ Lab Management | Complete |
| ✓ Build | Complete |
| ✓ Test Management | Complete |
| ✓ Project Server | Complete |

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Previous Next Complete Close

Click on Complete and then Close to finish the operation.

After this, you can see the collection attached again and would be very well available to the TFS Console. You can now resume your operation or work.

This operation can also be done by using the command prompt by supplying the below instructions.

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```
"C:\Program Files\Microsoft Team Foundation Server 2010\Tools\TFSSConfig.exe" Collection /attach  
/collectionName:tfs_test /collectionDB:fe20046s\tfs_test;Tfs_tfs01_Aug2011 /clone
```

7.4 Detach the collection on Test

You now need to detach the collection on Test Environment for you to be able to restore the database on Test Environment.

For more details to detach a project collection from TFS Console in Test Environment, Refer to Section [7.1](#) , provided you do it in Test Environment only.

This step is must be done before you restore the database into TEST Env.

In case you have forgotten to back up the database, then you can run a recover

```
C:\Program Files\Microsoft Team Foundation Server 2010\Tools>TfsConfig.exe recover  
/ConfigurationDB:SQLServerName\SQLInstanceOfConfigDB;Tfs_Configuration  
/collectionDB:SQLServerName\SQLInstanceOfCollectionDB;DBCcollectionName
```

7.5 Restore the PROD Backup into Quality DB

Ensure that Detach of collection is done before proceeding with this steps.

After detaching the collection from Quality, You can now restore the database from Prod to Quality in the SQL Server. You need to have admin privileges in order to do the restore. In case you don't have the permissions, you can always ask to CI-Hotline to perform the operation on the database.

Please note that the restore of the database in our case should be *TFS_TFS01*, and *TFS_EHI_ALL*.

Once restore is successfully done, you can go with the next step.

7.6 Attach the collection on Test Server

After restore, you now need to detach the collection on Test Environment.

For more details to detach a project collection from TFS Console in Test Environment, Refer to Section [7.1](#) , provided you do it in Test Environment only.

If the attach of collection does not work, then you can try restarting the TFS Server by using TFSServiceControl.exe file.

- TfsServiceControl quiesce → This command stops the service
- TfsServiceControl unquiesce → This command starts the service

8 Clean Client Cache

After the operation, you should force Users to clean the client cache

Automatically

- PSystem:
<http://localhost:8080/tfs/tfs01/WorkItemTracking/v1.0/ClientService.aspx?op=StampWorkitemCache>
- Q_System:
http://localhost:8080/tfs/tfs01_test/WorkItemTracking/v1.0/ClientService.aspx?op=StampWorkitemCache

Manually

- Delete all contains from C:\Users\hos9ban\AppData\Local\Microsoft\Team Foundation\3.0\Cache

In case of Errors connecting TFS servers: TFS client cache must be clear:

9 Configure your attachment store

Because the prod database was restored on test database, Attachment Management in Visual Studio needs to be configured with TEST Credentials if connected to TFS Test Server.

Below are the steps that need to be done to configure the TEST Details in to Attachment Management Store.

- Take care that you have installed the MS Power Tools for TFS:
\\festorage02\csw_Standard_Software\Development\VisualStudio\TFS\TFSTools\TFPowerTools.
- In TFS Client (Visual Studio) "Open WIT from Server" (see shot 1).
- Choose the Q-System Server (see shot 2).
- Select WI type "Call" (see shot 3).
- In the WIT window navigate to "Layout" and look for tab group "attachments".
- Select the ellipse button in right pane at row "Attributes" (see shot 4).
- In the following editor replace the P-System IP for "svcurl" and "authsvcurl" with the correct Q-System IP.

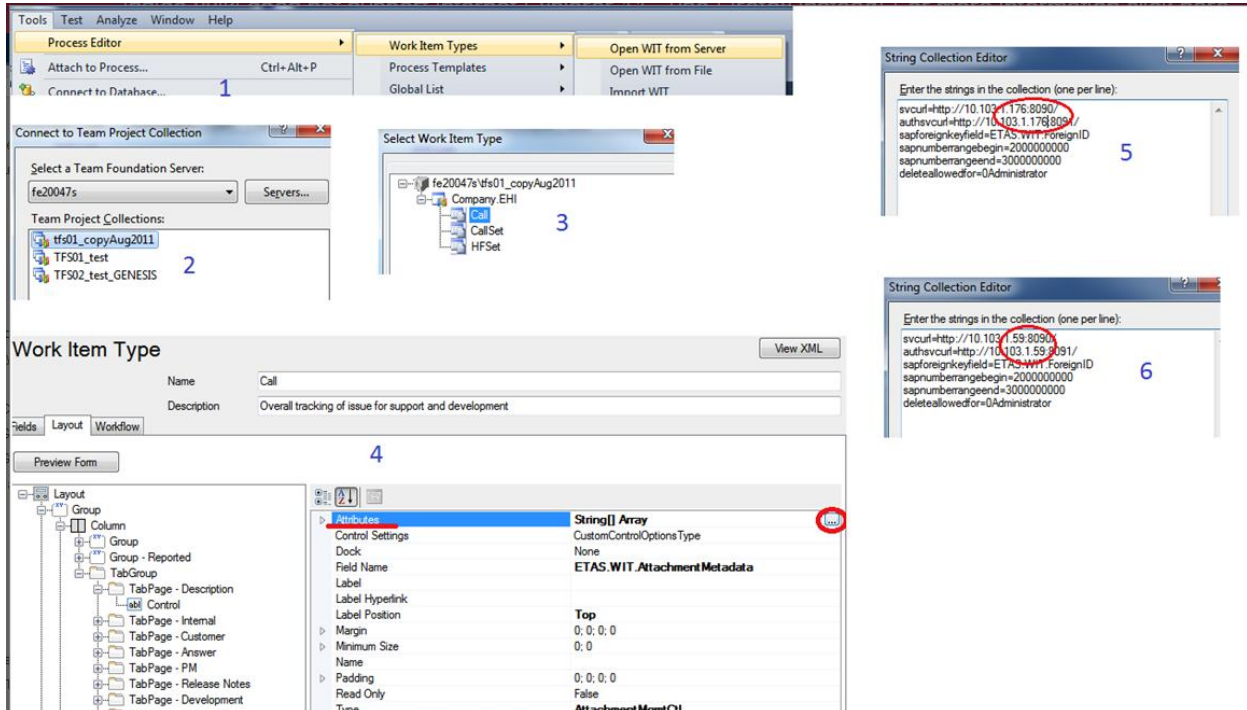
Look at the below screenshot to identify the changes.

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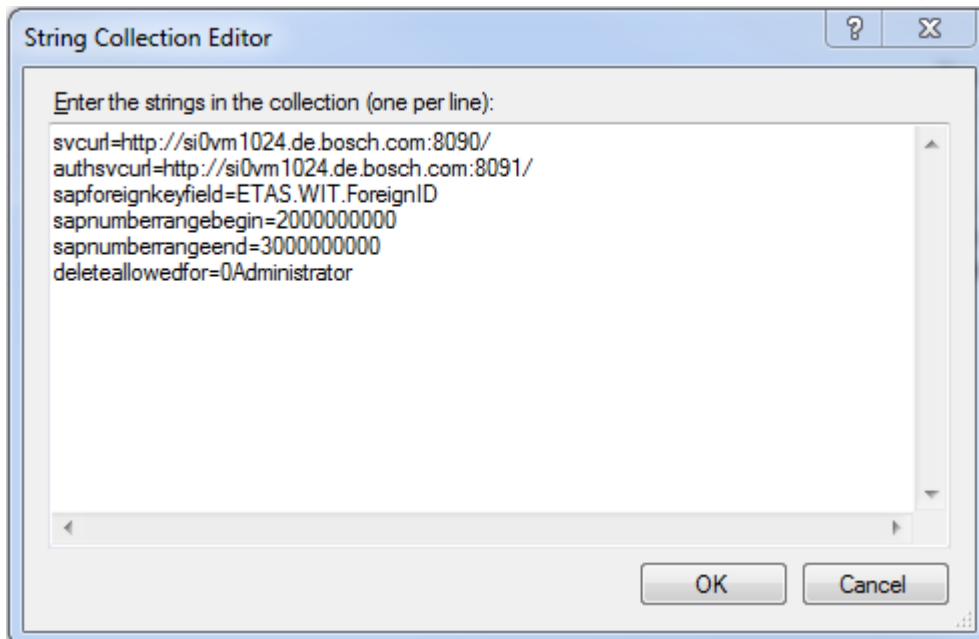
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The screenshot displays the Process Editor interface. The 'Process Editor' window shows the 'Connect to Team Project Collection' dialog (1) with 'fe20047s' selected. The 'Team Project Collections' list (2) shows 'tfs01_copyAug2011', 'TFS01_test', and 'TFS02_test_GENESIS'. The 'Select Work Item Type' dialog (3) shows 'Call' selected. The 'Work Item Type' details for 'Call' (4) show the 'Name' as 'Call' and the 'Description' as 'Overall tracking of issue for support and development'. The 'String Collection Editor' dialog (5) shows the configuration for the 'Call' work item type, with the 'String[] Array' field set to 'ETAS.WIT.AttachmentMetadata'. The 'String Collection Editor' dialog (6) shows the configuration for the 'Call' work item type, with the 'String[] Array' field set to 'ETAS.WIT.AttachmentMetadata'.

The Config file has to be updated with correct information. If we have moved it from PROD to TEST, then the attachment management store would look like



The screenshot shows the 'String Collection Editor' dialog. The 'Enter the strings in the collection (one per line):' text is followed by the following configuration:

```
svcurl=http://si0vm1024.de.bosch.com:8090/
authsvcurl=http://si0vm1024.de.bosch.com:8091/
sapforeignkeyfield=ETAS.WIT.ForeignID
sapnumberangebegin=2000000000
sapnumberangeend=3000000000
deleteallowedfor=0Administrator
```

The 'OK' and 'Cancel' buttons are visible at the bottom of the dialog.

10 Issues

10.1 None Planned transport of TFS from P to Q/Dev system

Sometimes is required to restore one of the TFS project Collections to a previous Date in time. For example some corrupt activities damage a Collection DB and we need to restore it to a new system in order to analyze it.

If the SQL full backup was performed without previous TFS Detach. Follow these steps:

- Restore all DB's (but not Tfs_Configuration) to the new system. Remember that if you want to restore the Tfs_Configuration DB you need also restore all Collection DBs. If not, you will receive such an error:
 - TF246081: An error occurred while attempting to attach the team project collection. The collection was not detached properly. Either the collection was not detached using the correct tools, or the detach operation did not complete successfully. You must detach this collection successfully before you can attach it to a deployment of Team Foundation Server
- If you need to restore the fullbackup and after that some differential Backup in SQL Server, do not forget to restore the Full Backup in NONRECOVERY mode and after that restore the Diffs "WITHRECOVERY" mode

```
RESTORE DATABASETfs_CollectionDB
FROM DISK ='C:\Tfs_CollectionDB.Fullbak'
WITHNORECOVERY;
RESTORE DATABASETfs_CollectionDB
FROM DISK ='C:\Tfs_CollectionDB.Diffbak'
WITHRECOVERY;
```

- Recover restored Collection DB

```
TfsConfig.exe Recover /ConfigurationDB:"fe20046s\tfs_test;tfs_Configuration"
/CollectionDB:"fe20046s\tfs_test;Tfs_TFS02_Restore"
```
- After recover, the Collection will be displayed in TFS Admin Console with the state "Offline"
- Dettach the Collection and Attach it again
- If you restored the Tfs_Configuration DB, please change related TFS Server and collection DB IDs.
 - Use TFSSConfig.exe ChangeServerID command to change the global universal identifications (GUIDs) that are associated with the databases for TFS. Docu here

```
"TfsConfig.exe ChangeServerID /SQLInstance:"fe20046s\restoretests
/DatabaseName:tfs_Configuration"
```
 - Please take into account that TFS Project collection Administration permissions and other permissions could be lost after perform this command.

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11 Conclusion

Use case is implemented with proper instructions as mentioned above.