

IBM® Telecom Operations Content Pack 6.2.0 iFix JR33078, Readme

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1.0 Purpose of this iFix

The IBM® Telecom Operations Content Pack version 6.2.0 iFix JR33078 provides a way to configure the content pack in a cluster environment. This ifix can also be used to configure Telecom Operations Content Pack version 6.2 in a stand-alone server environment.

2.0 Contents of this iFix

The artifacts provided as a part of the IBM® Telecom Operations Content Pack version 6.2.0 iFix JR33078 are listed here:

- A set of Fabric Projects required for the runtime environment. These are packaged as Fabric Content Archive files.
- A python script that will help customers in installing the Telecom Operations Common Services Enterprise Archive (EAR) in the runtime environment.

3.0 Prerequisites for using the iFix

Before using this iFix, you should already install WebSphere Business Services Fabric 6.2.0.1 Foundation Pack.

4.0 Using the IBM® Telecom Operations Content Pack 6.2.0 iFix JR33078

Apply the IBM® Telecom Operations Content Pack 6.2.0 iFix JR33078 using the following steps:

- 4.1 Importing the Fabric Content Archives for Telecom Operations Content Pack in a cluster environment.
- 4.2 Installing Telecom Operations Common Services EAR file in a cluster environment

4.1 Importing the Fabric Content Archives for Telecom Operations Content Pack in a cluster environment.

There are three sets of Fabric Content Archive files related to the IBM® Telecom Operations Content Pack that have been deployed on runtime cluster environment. These files are listed here:

- **core:** It is mandatory to import these Fabric Content Archives on runtime environment for successfully deploying the Telecom Operations Content Pack assets.
- **optional:** These Fabric Content Archives, are optional and you can proceed without importing into the runtime environment. These files contain metadata about the Capability Process models, Reference model endpoint, and so on.
- **reference-impl:** These Fabric Content Archives are required if you want to deploy the assets required for the Telecom Operation Reference Implementation in a cluster environment.

To import these Fabric Content Archives files into the runtime environment, the WebSphere Business Services Fabric Migration Utility has been leveraged. This utility is installed as part of WebSphere Business Services Fabric Foundation Pack version 6.2.0.1 installation.

The migration utility for importing Fabric Content Archives is a stand alone Java™ program. The migration utility has also been provided as a part of this iFix. If you have WebSphere Business Services Fabric version 6.2.0.1 installed on your system, the migration utility is copied to the fabric_6201_install_home folder. Depending on the database information provided by you, the migration utility uses the information from the Fabric Content Archives and imports them into the WebSphere Business Services Fabric environment.

➤ **Preparing for Fabric Content Archives import**

Extract the given iFix “TOCP_FCA_FOR_RUNTIME_ENV.zip” to any location on your system. You will need to update the extracted location path (iFix_Extraction_folder) in your batch file (.bat or .sh file) as specified here.

➤ **Importing the Fabric Content Archives using migration utility**

1. Extract the ZIP file to the following path
<fabric_6201_install_home>/migration/fabric-import-62.zip
2. Open the <fabric_6201_install_home>/migration/fabric-import-62/**import.bat** or **sh** file in any editor depending on windows or unix based environment.
3. Set all the required parameters as specified in the following table.

Table 1: The required parameters for using any database other than the derby database.

set FOLDER=	FOLDER is the directory to retrieve the iFix Fabric Content Archives. In this case it will be, <iFix_Extraction_folder>/runtime/fabric/projects/core/fca/
set DRIVERNAME=	DRIVERNAME is the database type. Such as, db2, oracle or derby.
set DBNAME=	Database Name. For Derby, specify DBNAME as the fully qualified path to the Derby DB directory.
set SERVER_IP=	IP/Hostname of the database server. For Derby, specify SERVER_IP as localhost
set JAVA_HOME=	Fully qualified path to the Java/JRE home directory. If you do not have the standalone JRE installed on your machine, you can point JAVA_HOME to the IBM® JAVA/JRE (WPS_HOME/java). Note: JAVA_HOME path should not have any spaces in between
set DRIVERCLASSPATH=	Fully qualified path to the database drivers. Such as - Oracle set DRIVERCLASSPATH=%ORACLE_HOME%\jdbc\lib\ojdbc6.jar Note: Remove all the spaces from the DRIVERCLASSPATH
set SERVER_PORT=	Port on which the DB instance is running (Such as, 50000 for DB2, 1527 for Oracle).
set USERNAME=	DB username.
set PASSWORD=	DB password.

Note: Sample statements from above tables are already provided in the import script.

4. Save both the scripts.
5. Open a new command prompt in Windows or a terminal window in UNIX based environment and navigate to the path: < fabric_6201_install_home >/migration/fabric-import-62/.
6. Type **import** in the Windows or **./import.sh** in the UNIX based environment.
7. For language packs, run the utility once again by resetting the FOLDER variable to “set FOLDER=” as <iFix_extraction_folder>/runtime/fabric/projects/core/**lp**/
8. Start the server.
9. Logon to the Fabric administrative console, and verify the IBM® Telecom Operations Content Pack assets.

Note: Appropriate success/error messages are provided in the command or terminal window, and the detailed logs are written to the < fabric_6201_install_home >/migration/fabric-import-62 folder.

The following image shows a sample console log for successful import of the core Fabric Content Archive.

```
Initializing database.....
Importing Projects...
Importing FCA .... H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\
projects\core\fca\01..industry-iso-codes-model.jar
H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\projects\core\fca\0
1..industry-iso-codes-model.jar successfully imported
Importing FCA .... H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\
projects\core\fca\02..industry-bp-glossary-model.jar
H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\projects\core\fca\0
2..industry-bp-glossary-model.jar successfully imported
Importing FCA .... H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\
projects\core\fca\03..industry-bp-fabric-model.jar
H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\projects\core\fca\0
3..industry-bp-fabric-model.jar successfully imported
Importing FCA .... H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\
projects\core\fca\04..telecom-operations-glossary-model.jar
H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\projects\core\fca\0
4..telecom-operations-glossary-model.jar successfully imported
Importing FCA .... H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\
projects\core\fca\05..telecom-operations-core-model.jar
H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\projects\core\fca\0
5..telecom-operations-core-model.jar successfully imported
Importing FCA .... H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\
projects\core\fca\06..telecom-operations-service-interfaces.jar
H:\oracle_10g_patch\ContentPackOnCluster\ifix\runtime\fabric\projects\core\fca\0
6..telecom-operations-service-interfaces.jar successfully imported
Project Import Complete
Please check fabric-export-import-62.log for more details
```

As shown in the following image , on successful import of the FCA, you should be able to see the following list of projects in the WBSF Admin Console:

Configure Projects

Project Selection

View rows at a time

15 rows

Page

Project Name	Project Type	Description
Telecom Operations Reference Implementation	Legacy Business Service	Shows demonstrable use case using Telecom Operations Content Pack.
Telecom Operations Content Pack	Legacy Business Service	Contains Business Service Reference Templates including Business Services, web services, channels,roles and policy templates
Telecom Operations Business Capability and Process Map Model	Ontology	Defines business capabilities and processes with their relationships
Telecom Operations Service Endpoints	Ontology	Contains Business Service Reference Templates including Business Services, web services, channels,roles and policy templates
Fabric Governance	Legacy Business Service	Used to store project, namespace, and environment objects
Telecom Operations Fabric Model	Ontology	Defines Telecom Operations Fabric Concepts.
Telecom Operations Glossary Model	Ontology	Defines Telecom Operations Glossary Concepts.
Industry - Best Practices Fabric Model	Ontology	Defines Industry Best Practices concepts.
Industry - Best Practices Glossary Model	Ontology	Defines Industry Best Practices Glossary concepts.
Industry - ISO Codes Model	Ontology	Defines ISO Codes Concepts.
Telecom Operations Service Interfaces	Ontology	Contains Business Service Reference Templates including Business Services, web services, channels,roles and policy templates
User Policies	Legacy Business Service	Policies created using the Customized Policy application programming interface are stored in this project
Organizations, Users, and Roles	Legacy Business Service	Used by IBM Business Services Subscriber Manager to store organizations, users, and role relationships
Fabric Business Service Model	Ontology	Contains the schema namespaces that define the internal model used by IBM Business Services Repository
Fabric Business Glossary	Vocabulary	Used to store all Business Vocabularies.

4.2 Installing TOCP Common Service ear on cluster environment

Follow below steps for installing the TOCP Common Services application on cluster environment:

1. Copy the given iFix “deployCommonServices.py” to the server location (script_file_location), where you have deployment manager profile installed.
2. Open a new command prompt in Windows or a terminal window in UNIX based environment and navigate to the path: <dmgr_profile_path>/bin
3. Type the command

For Windows environment:

```
wsadmin -user <admin_user> -password <admin_password> -connType NONE -f <script_file_location>/deployCommonServices.py -cluster <application_cluster_name> -earPath <tocp_install_dir>/runtime/telecom-fabric.ear
```

For Unix based environment:

```
./wsadmin.sh -user <admin_user> -password <admin_password> -connType  
NONE -f <script_file_location>/deployCommonServices.py -cluster  
<application_cluster_name> -earPath <tocp_install_dir>/runtime/telecom-  
fabric.ear
```

4. Open the WebSphere Process Server Administration Console and start the Application “TOCP Common Services”

5.0 Technical support

Contacting IBM Software Support

If you encounter a problem with this product, first try the following actions:

- Follow the steps described in the product documentation
- Look for related documentation in the online help
- Look up error messages in the message reference

If you cannot resolve your problem by any of the preceding methods, contact IBM Technical Support.

Purchase of IBM WebSphere Application Server entitles you to one year of telephone support under the Passport Advantage[®] program. For details about Passport Advantage, visit [the Passport Advantage[®] page](#).

The number for Passport Advantage members to call for WebSphere Application Server support is 1-800-426-7378. Have the following information available when you call:

- Your contract or Passport Advantage number.
- Your WebSphere Application Server version and revision level, plus any installed fixes.
- Your operating system name and version.
- Your database type and version.
- Basic topology data: how many machines are running, how many application servers, and so on.
- Any error or warning messages that are related to your problem.