

IBM Financial Transaction Manager for SWIFT Services  
for Multiplatforms  
Version 3.0.0

*Readme*  
*Fix Pack 8*

**IBM**



IBM Financial Transaction Manager for SWIFT Services  
for Multiplatforms  
Version 3.0.0

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*Fix Pack 8*

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This edition applies to Version 3.0.0 of IBM Financial Transaction Manager for SWIFT Services for Multiplatforms (5725-X92) - Fix Pack 3.0.0.8.

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## Chapter 1. General information

Before starting with the installation process, view the online version of this readme file to check if information has changed since the readme file was downloaded.

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### Download location

You can download FTM SWIFT 3.0.0.8 from Fix Central at the following location:

<https://www.ibm.com/support/fixcentral/>

Search for the Fix ID: 3.0.0-FTM-SWS-MP-fp0008

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### Prerequisites and co-requisites

Before installing the current fix pack perform the following steps:

- Ensure that your system meets all of the system requirements:  
[https://www.ibm.com/support/docview.wss?uid=swg27027034#V30\\_SWS\\_MP](https://www.ibm.com/support/docview.wss?uid=swg27027034#V30_SWS_MP)  
This prevents technical problems that might occur after the installation and configuration of the fix pack.
- Review the flashes on the Financial Transaction Manager support web site:  
[https://www.ibm.com/support/home/product/W823356Z48952D56/IBM\\_Financial\\_Transaction\\_Manager](https://www.ibm.com/support/home/product/W823356Z48952D56/IBM_Financial_Transaction_Manager)
- Ensure that you have at least 500 MB of free disk space to contain the uncompressed installation image.
- If you already have FTM SWIFT installed:
  - If you have obtained special fixes contact IBM Support to determine whether you need an updated version of the fixes before you install this fix pack.
  - Ensure that you have at least fix pack 3.0.0.4 installed and all post-installation steps were finished.

---

### What's new in FTM SWIFT 3.0.0, Fix Pack 8

The following changes were introduced:

#### **SWIFT Standards Release 2018 (SR2018) added**

- SR2018 is supported. This includes:
  - FIN
  - MX
  - Funds 5.1

The provided standards release update activates automatically according to the release schedule of SWIFT. However, you can install this fix pack before the SR2018 live date and continue to process messages according to the current standards release. If you want to use the new standards release updates for testing purposes earlier you can activate them using FTM SWIFT configuration. For details refer to Testing a new message definition set .

- Unique end-to-end transaction reference (UETR) for SWIFT gpi is supported for the SIPN FIN service and the FIN standards definitions.

- New strict or relaxed message validation mode to control UETR field checking. The new mode is available for DniStandardsProcessing node and the Java API of the Message Standards Service.

#### **Removed support for SWIFT Standards**

The support for the following SWIFT Standards is removed:

- FIN (SR2015)
- MX (SR2015)
- Funds 4.8
- Proxy Voting 1.3

#### **MSIF Service**

- If a successful delivery notification is received for a MSIF SendFile transfer then MSIF considers the transfer being completed successful, even if no FileAct event with transfer state *Completed* was received.
- MSIF now sends out SNL primitives for FileAct without new line characters.

#### **AO Facility**

The event list of the AO Facility is enhanced to show an information icon for events and response messages. The user can hover the mouse pointer over this icon to get a display with an explanation of the message.

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## **Known Problems**

For a list of known problems refer to:

<http://www.ibm.com/support/docview.wss?uid=swg22017050>



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## Chapter 2. Installation information

You can find information about the installation and migration steps mentioned in this document in the FTM SWIFT for Multiplatforms Knowledge Center at:

[https://www.ibm.com/support/knowledgecenter/SSRH46\\_3.0.0\\_SWS](https://www.ibm.com/support/knowledgecenter/SSRH46_3.0.0_SWS)

This readme document uses the following variables:

**inst\_dir**

The installation directory of FTM SWIFT.  
The default is: /opt/IBM/ftm/swift/v300.

**run\_dir**

The directory for runtime data.  
The default is: /var/ftmswift\_v300/run.

**cust\_dir**

The directory for customization data.  
The default is: /var/ftmswift\_v300/cus.

**deployment\_dir**

The deployment data directory.  
The default is: /var/ftmswift\_v300/cus/depdata.

**instance**

The name of the FTM SWIFT instance.  
The default is: INST1.

**ou**

The name of the organizational unit.  
Depending on the context this might be SYSOU, DNFSYSOU, or the name of a business OU.

**db2\_dsn**

The name of the FTM SWIFT runtime database.

---

### Installing FTM SWIFT 3.0.0.8 - Create a new installation

If you have not installed FTM SWIFT yet:

1. Plan your system as described in Planning.
2. Install fix pack 3.0.0.8 by following the description in Installing FTM SWIFT.
3. Prepare your system as described in Preparing to create an instance.
4. Customize your instance as described in Customizing an instance for which resources have not yet been deployed.

---

### Installing FTM SWIFT 3.0.0.8 - Update an existing installation

Updating an existing environment consists of the phases *Preparing*, *Switching*, *Cleaning up* and optionally *Falling back*.

Depending on how you share your product files there are two installation variants that differ in the amount of migration steps you can prepare before entering the downtime during which you cannot process workload:

**Separated file systems**

The file systems of the installation system and the customization/runtime

systems are separated. The fix pack installation only affects the installation system until you manually share the files with your customization and runtime system. This helps you to prepare migration steps while your system can still process workload.

#### Shared file system

Your installation, customization and runtime environment use a single shared file system. The fix pack installation may immediately affect your runtime environment. This reduces the steps you can do to prepare the migration while your system can still process workload.

Choose the subsection that applies to your file system setup.

## Separated file systems: Preparing and Switching

Follow the steps required to prepare and switch your environment.

### Preparing

Perform the following steps while your runtime system continues to process workload:

1. If you use MER:  
Identify outdated messages and templates using the MER message administration utility. Perform a migration action on the detected templates. If you have templates of domain DNIPROXYVOTING contact IBM Support.
2. If your current FTM SWIFT fix pack level is 3.0.0.4 or 3.0.0.5:  
Ensure that the FTM SWIFT WAS profile is running on Java version 7 or higher.
3. Ensure that no customization operation is pending.
4. Ensure that no configuration or security administration change is pending.
5. Plan your table spaces:
  - a. Download the updated table space calculation spreadsheet from:  
<http://www.ibm.com/support/docview.wss?uid=swg27047237>
  - b. Refer to Chapter 3, "Summary of changes," on page 15 and check if the table space allocation still fits your needs or you have to plan new table spaces.
6. Create a backup of your customized administrative scripts from *deployment\_dir/instance/admin*:

```
mkdir ~/admin_scripts_backup
cp /var/ftmswift_v300/cus/depdata/INST1/admin/* ~/admin_scripts_backup
```
7. Use IBM Installation Manager to install the fix pack for FTM SWIFT 3.0.0.8.
8. Share the files in the *inst\_dir/admin* directory with your customization system.
9. If your current FTM SWIFT fix pack level is 3.0.0.4, 3.0.0.5 or 3.0.0.6:  
Create and assign new user groups:
  - a. This fix pack introduces new customization placeholders that represent operating system user groups that will be granted permissions required to run the Data Integrity Checker commands:
    - DNIvDAGRP
    - DNIvDBGRP
    - DNIvDCGRP

Plan which user group you will assign later in the customization process to each placeholder.

- b. Ask your system administrator to create missing user groups and assign them to the appropriate user id's.
10. Provide values for new customization placeholders, and create deployment instructions and vehicles:

- a. Log on to your customization system as a customizer (ucust1).
- b. Change to the customization file system, for example:

```
cd /var/ftmswift_v300/cus
```

- c. Start the CDP in migration mode and generate a CDD that contains the definitions for your environment:

```
dnicdpm -i instance
> export cdd/instance_FP3008.cdd
> supplement cdd/instance_FP3008.cdd cdd/instance_FP3008_supp.cdd
```

- d. If your current FTM SWIFT fix pack level is 3.0.0.4, 3.0.0.5 or 3.0.0.6: The new CDD `cdd/instance_FP3008_supp.cdd` contains the following new placeholders:

- DNIVDAGRP
- DNIVDBGRP
- DNIVDCGRP

Placeholders `DNIVD[A|B|C]GRP` represent operating system user groups that you planned earlier already.

For more information refer to Customization placeholders.

Edit the CDD and provide appropriate values for your environment.

- e. Import the edited CDD and prepare deployment instructions and vehicles:

```
> import cdd/instance_FP3008_supp.cdd
> prepare
```

This step updates the customized administrative scripts in directory `deployment_dir/instance/admin`. It generates deployment instructions in file `deployment_dir/instance/timestamp/instructions.txt`.

- f. Implement the customization definition data and quit the CDP session:

```
> implement
> quit
```

When the message "DNIZ9013I: If you continue, the current CDD will be overwritten by a new CDD." is displayed enter 'y' to continue.

11. If your current FTM SWIFT fix pack level is 3.0.0.6 and you already performed the steps in Activating the data integrity framework:

Gather all data integrity trigger modules from the customized administrative scripts directory into a single file:

- a. Log on as a customizer (ucust1).
- b. Create a temporary directory where you want to store the data integrity trigger statements:

```
mkdir -p /tmp/trigger
```

- c. Enter the following command on a single line:

```
inst_dir/admin/bin/dniczdic
  -collect
  -d deployment_dir
  -i instance
  -l /tmp/trigger
```

This command creates the file `/tmp/trigger/dnirunb_dic.ddl`.

12. If you plan manual deployment of the FTM SWIFT BAR files, follow Prepare BAR files for manual deployment.
13. Prepare an updated dniprofile:
  - a. Back up your existing dniprofile.
  - b. Change the CLASSPATH in your current profile or use the delivered sample profile *inst\_dir/run/samples/dniczpro.prf*. The CLASSPATH must look like:
 

```
CLASSPATH=$CLASSPATH:$DNI_WMB_PATH/classes/ConfigManagerProxy.jar
CLASSPATH=$CLASSPATH:$DNI_WMQ_PATH/java/lib/*
CLASSPATH=$CLASSPATH:$DNI_PATH/run/classes/*
export CLASSPATH
```
  - c. If your environment runs on AIX:
 

Change the LIBPATH in your current profile or use the delivered sample profile *inst\_dir/run/samples/dniczpro.prf*. The LIBPATH definition in the Java section must look like:

```
LIBPATH=$DNI_JAVA_PATH/lib/ppc64/j9vm:$DNI_JAVA_PATH/lib/ppc64:$LIBPATH
```
14. If your environment runs on AIX:
 

Prepend the following directory to the DNI\_JAVA\_LIBPATH environment variable in your FTM SWIFT broker profile or execution group specific profile: */usr/java7\_64/jre/lib/ppc64*

The resulting definition must look like:

```
DNI_JAVA_LIBPATH=/usr/java7_64/jre/lib/ppc64:/usr/java7_64/jre/lib/ppc64/j9vm
```
15. Prepare the migration of configuration entities.

## Switching

Perform the following steps during a scheduled downtime:

1. Stop all sessions and services you use.
2. Stop all FTM SWIFT enterprise applications.
3. Stop all FTM SWIFT application servers.
4. Back up the FTM SWIFT IBM® WebSphere® Application Server (WAS) profiles.
5. Stop all FTM SWIFT related message flows.
6. Stop all FTM SWIFT message brokers.
7. Share the files in the *inst\_dir/run* directory with your runtime system.
8. Back up your runtime database.
9. Open and follow the deployment instructions.
10. If your current FTM SWIFT fix pack level is 3.0.0.4 or 3.0.0.5:
 

Remove the old Jar files from Db2 function folder:

```
rm /home/db2inst1/sqllib/function/jar/dnicl.*
```
11. Follow the instruction in Verifying the installation of the database routines.
12. Restart all FTM SWIFT message brokers.
13. Deploy BAR files.
14. Verify the deployed BAR files:
 

```
dniczbap -cmd list -flow DNI_SYSADM
```

The deployment was successful if the displayed version contains 3.0.0.8.
15. Re-activate FTM SWIFT accounting if you use the SIPN FIN or FMT FIN service.
16. Restart all FTM SWIFT related message flows.
17. Migrate the configuration entities.

18. If your current FTM SWIFT fix pack level is 3.0.0.6 and you already performed the steps in Activating the data integrity framework: Update the data integrity framework:
  - a. Create and update data integrity triggers:
    - 1) Log on as Db2 administrator (udb2adm1).
    - 2) Run the data integrity trigger creation statements:
 

```
cd /tmp/trigger
db2 connect to db2_dsn
db2 +c -svtd# -z trig.log -f dnirundb_dic.ddl
```
  - b. Run the DIC **build** command:
    - 1) Log on as a data integrity operator.
    - 2) Run the data integrity checker command build, for example:
 

```
dnpdic -Djava.security.policy=/var/ftmswift_v300/run/ftmswift.policy
        -passphrase my_passphrase
        -dsn DSN1 -schema DNI -uid helen -pw helens_password
        -build
```
  - c. Add configuration object DniVault:
    - 1) Log on as System configuration administrator (sa1).
    - 2) Run your dniprofile:
 

```
./var/ftmswift_v300/run/dniprofile
```
    - 3) Create a new configuration object:
 

```
dnicli -ou SYSOU -s DNI_SYSADM
> add -ou SYSOU -ct DniFileDir -co DniVault -attr Path -val vault_path
> add -ou SYSOU -ct DniFileDir -co DniVault -attr read
```

where *vault\_path* represents the directory you specified for parameter **-dir** when creating the vault file.
    - 4) Commit, approve and deploy SYSOU.
19. Restart all FTM SWIFT enterprise applications.
20. Restart all sessions and services.
21. Update the IBM Integration Toolkit workstation if you use either of the following:
  - FTM SWIFT sample message flows as foundation for your own flow development
  - FTM SWIFT nodes in your own message flows
  - FTM SWIFT message set projects containing XML schema definitions that, for example, are utilized by the IBM Integration Toolkit XPath wizard

Rebuild and redeploy any custom message flows that use FTM SWIFT APIs.
22. If your current FTM SWIFT fix pack level is 3.0.0.4 or 3.0.0.5: If you use the SAG Add-On, follow the description in Update an SAG Add-On.

## Shared file system: Preparing and Switching

Follow the steps required to prepare and switch your environment.

### Preparing

Perform the following steps while your runtime system continues to process workload:

1. If you use MER:
  - Identify outdated messages and templates using the MER message

administration utility. Perform a migration action on the detected templates. If you have templates of domain DNIPROXYVOTING contact IBM Support.

2. If your current FTM SWIFT fix pack level is 3.0.0.4 or 3.0.0.5:  
Ensure that the FTM SWIFT WAS profile is running on Java version 7 or higher.
3. Ensure that no customization operation is pending.
4. Ensure that no configuration or security administration change is pending.
5. Prepare an updated dniprofile:

- a. Back up your existing dniprofile.

- b. Change the CLASSPATH in your current profile or use the delivered sample profile *inst\_dir/run/samples/dniczpro.prf*. The CLASSPATH must look like:

```
CLASSPATH=$CLASSPATH:$DNI_WMB_PATH/classes/ConfigManagerProxy.jar
CLASSPATH=$CLASSPATH:$DNI_WMQ_PATH/java/lib/*
CLASSPATH=$CLASSPATH:$DNI_PATH/run/classes/*
export CLASSPATH
```

- c. If your environment runs on AIX:

Change the LIBPATH in your current profile or use the delivered sample profile *inst\_dir/run/samples/dniczpro.prf*. The LIBPATH definition in the Java section must look like:

```
LIBPATH=$DNI_JAVA_PATH/lib/ppc64/j9vm:$DNI_JAVA_PATH/lib/ppc64:$LIBPATH
```

6. If your environment runs on AIX:  
Prepend the following directory to the DNI\_JAVA\_LIBPATH environment variable in your FTM SWIFT broker profile or execution group specific profile:  
*/usr/java7\_64/jre/lib/ppc64*

The resulting definition must look like:

```
DNI_JAVA_LIBPATH=/usr/java7_64/jre/lib/ppc64:/usr/java7_64/jre/lib/ppc64/j9vm
```

7. Plan your table spaces:
  - a. Download the updated table space calculation spreadsheet from:  
<http://www.ibm.com/support/docview.wss?uid=swg27047237>
  - b. Refer to Chapter 3, "Summary of changes," on page 15 and check if the table space allocation still fits your needs or you have to plan new table spaces.

8. If your current FTM SWIFT fix pack level is 3.0.0.4, 3.0.0.5 or 3.0.0.6:  
Create and assign new user groups:

- a. This fix pack introduces new customization placeholders that represent operating system user groups that will be granted permissions required to run the Data Integrity Checker commands:

- DNIvDAGRP
- DNIvDBGPR
- DNIvDCGRP

Plan which user group you will assign later in the customization process to each placeholder.

- b. Ask your system administrator to create missing user groups and assign them to the appropriate user id's.

9. Create a backup of your customized administrative scripts from *deployment\_dir/instance/admin*:

```
mkdir ~/admin_scripts_backup
cp /var/ftmswift_v300/cus/depdata/INST1/admin/* ~/admin_scripts_backup
```

## Switching

Perform the following steps during a scheduled downtime:

1. Stop all sessions and services you use.
2. Stop all FTM SWIFT enterprise applications.
3. Stop all FTM SWIFT application servers.
4. Back up the FTM SWIFT IBM WebSphere Application Server (WAS) profiles.
5. Stop all FTM SWIFT related message flows.
6. Stop all FTM SWIFT message brokers.
7. Use IBM Installation Manager to install the fix pack for FTM SWIFT 3.0.0.8.
8. Provide values for new customization placeholders, and create deployment instructions and vehicles:

a. Log on to your customization system as a customizer (ucust1).

b. Change to the customization file system, for example:

```
cd /var/ftmswift_v300/cus
```

c. Start the CDP in migration mode and generate a CDD that contains the definitions for your environment:

```
dnicdpm -i instance
> export cdd/instance_FP3008.cdd
> supplement cdd/instance_FP3008.cdd cdd/instance_FP3008_supp.cdd
```

d. If your current FTM SWIFT fix pack level is 3.0.0.4, 3.0.0.5 or 3.0.0.6:

The new CDD `cdd/instance_FP3008_supp.cdd` contains the following new placeholders:

- DNIvDAGRP
- DNIvDBGRP
- DNIvDCGRP

Placeholders `DNIvD[A|B|C]GRP` represent operating system user groups that you planned earlier already.

For more information refer to Customization placeholders.

Edit the CDD and provide appropriate values for your environment.

e. Import the edited CDD and prepare deployment instructions and vehicles:

```
> import cdd/instance_FP3008_supp.cdd
> prepare
```

This step updates the customized administrative scripts in directory `deployment_dir/instance/admin`. It generates deployment instructions in file `deployment_dir/instance/timestamp/instructions.txt`.

f. Implement the customization definition data and quit the CDP session:

```
> implement
> quit
```

When the message "DNIZ9013I: If you continue, the current CDD will be overwritten by a new CDD." is displayed enter 'y' to continue.

9. Back up your runtime database.
10. Open and follow the deployment instructions.
11. If your current FTM SWIFT fix pack level is 3.0.0.4 or 3.0.0.5:  
Remove the old Jar files from Db2 function folder:

```
rm /home/db2inst1/sqllib/function/jar/dnics1.*
```

12. Follow the instruction in Verifying the installation of the database routines.
13. Restart all FTM SWIFT message brokers.

14. If you plan manual deployment of the FTM SWIFT BAR files, follow Prepare BAR files for manual deployment.
15. Deploy BAR files.
16. Verify the deployed BAR files:  

```
dniczbap -cmd list -flow DNI_SYSADM
```

The deployment was successful if the displayed version contains 3.0.0.8.

17. Re-activate FTM SWIFT accounting if you use the SIPN FIN or FMT FIN service.
18. Restart all FTM SWIFT related message flows.
19. Prepare the migration of configuration entities.
20. Migrate the configuration entities.
21. If your current FTM SWIFT fix pack level is 3.0.0.6 and you already performed the steps in Activating the data integrity framework:  
Update the data integrity framework:

- a. Create and update data integrity triggers:

- 1) Log on as a customizer (ucust1).
- 2) Create a temporary directory where you want to store the data integrity trigger statements:

```
mkdir -p /tmp/trigger
```

- 3) Enter the following command on a single line:

```
inst_dir/admin/bin/dniczdic
  -collect
  -d deployment_dir
  -i instance
  -l /tmp/trigger
```

This command creates the file /tmp/trigger/dnirundb\_dic.ddl.

- 4) Log on as Db2 administrator (udb2adm1).
- 5) Run the data integrity trigger creation statements:

```
cd /tmp/trigger
db2 connect to db2_dsn
db2 +c -svtd# -z trig.log -f dnirundb_dic.ddl
```

- b. Run the DIC **build** command:

- 1) Log on as a data integrity operator.
- 2) Run the data integrity checker command build, for example:  

```
dnpdic -Djava.security.policy=/var/ftmswift_v300/run/ftmswift.policy
  -passphrase my_passphrase
  -dsn DSN1 -schema DNI -uid helen -pw helens_password
  -build
```

- c. Add configuration object DniVault:

- 1) Log on as System configuration administrator (sa1).
- 2) Run your dniprofile:

```
./var/ftmswift_v300/run/dniprofile
```

- 3) Create a new configuration object:

```
dnicli -ou SYSOU -s DNI_SYSADM
> add -ou SYSOU -ct DniFileDir -co DniVault -attr Path -val vault_path
> add -ou SYSOU -ct DniFileDir -co DniVault -attr read
```

where *vault\_path* represents the directory you specified for parameter **-dir** when creating the vault file.

- 4) Commit, approve and deploy SYSOU.



22. Restart all FTM SWIFT enterprise applications.
23. Restart all sessions and services.
24. Update the IBM Integration Toolkit workstation if you use either of the following:
  - FTM SWIFT sample message flows as foundation for your own flow development
  - FTM SWIFT nodes in your own message flows
  - FTM SWIFT message set projects containing XML schema definitions that, for example, are utilized by the IBM Integration Toolkit XPath wizard
 Rebuild and redeploy any custom message flows that use FTM SWIFT APIs.
25. If your current FTM SWIFT fix pack level is 3.0.0.4 or 3.0.0.5:
  - If you use the SAG Add-On, follow the description in Update an SAG Add-On.

## Cleaning up

After you have verified that the migrated environment works as expected and you are sure that no fall back to the previous level of FTM SWIFT is needed, you can remove obsolete resources:

1. Drop the backed up WebSphere Application Server profiles.
2. Drop the backup of the database.
3. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5: Free the obsolete packages and drop the unused SQLJ based stored procedures:
  - a. Log on as a Db2 administrator (udb2adm1).
  - b. Change to the directory of the customized administrative scripts (*deployment\_dir/instance/admin*):
 

```
cd /var/ftmswift_v300/cus/depdata/INST1/admin
```
  - c. Connect to your runtime database *db2\_dsn* and run the Db2 commands included in the file *dnicdmc0.ddl*. For example, issue the following commands:
 

```
db2 connect to DNIDBRUN
db2 -t -n -s -f /var/ftmswift_v300/cus/depdata/INST1/admin/dnicdmc0.ddl
```
4. Clean up unnecessary permissions for group *DNIVSGRP*:
  - a. Log on as a Db2 administrator (udb2adm1).
  - b. Run the following statement in an SQL processor:
 

```
REVOKE INSERT,UPDATE,DELETE ON DNIVSN.DNI_CCTRL FROM GROUP DNIVSGRP;
```

Note that the statement may return an SQLCODE -556 indicating that at least one of the permissions was not previously granted. This can be ignored.
5. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5: Clean up your Db2 administrator profile by removing the routines-instance directory entry from the CLASSPATH statement. For example, remove */var/ftmswift\_v300/run/routines/INST1*.
6. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5: Clean up the routines directory:
  - a. Change to the routines-instance directory:
 

```
cd /var/ftmswift_v300/run/routines
```
  - b. Remove the *instance* sub-directory:
 

```
rm -R INST1
```

c. After all FTM SWIFT instances are migrated remove the routines directory:

```
cd /var/ftmswift_v300/run
rm -R routines
```

7. Remove the backup of your customized administrative scripts created in step 6 on page 4 (separated file systems) or 9 on page 8 (shared file system):

```
rm -rf ~/admin_scripts_backup
```

## Falling back to the previous fix pack level

1. Stop all sessions and services you use.
2. Stop all FTM SWIFT application servers.
3. Stop all FTM SWIFT related message flows.
4. Stop all FTM SWIFT message brokers.
5. Recover the customization system.
6. Roll back the IBM Installation Manager update of the fix pack.
7. Share your files from the installation system with the customization and runtime system, if applicable.

8. Restore your runtime database.

9. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5:

Restore the previous FTM SWIFT system and security administration routine JAR files:

```
db2 "CALL SQLJ.REPLACE_JAR('file:inst_dir/run/classes/dnicdcfg.jar','dni.dnicdcfg')"
db2 "CALL SQLJ.REPLACE_JAR('file:inst_dir/run/classes/dnicdusr.jar','dni.dnicdusr')"
db2 "CALL SQLJ.REFRESH_CLASSES()"
```

10. If your migration starting point was FTM SWIFT fix pack level 3.0.0.6:

Restore the previous FTM SWIFT routine JAR files:

```
db2 "CALL SQLJ.REPLACE_JAR('file:inst_dir/run/classes/dnicdcfg.jar','dni.dnicdcfg')"
db2 "CALL SQLJ.REPLACE_JAR('file:inst_dir/run/classes/dnicdusr.jar','dni.dnicdusr')"
db2 "CALL SQLJ.REPLACE_JAR('file:inst_dir/run/classes/dnics1.boots.jar','dni.dnicsboots')"
db2 "CALL SQLJ.REPLACE_JAR('file:inst_dir/run/classes/dnics1.impl.jar','dni.dnicsimpl')"
db2 "CALL SQLJ.REFRESH_CLASSES()"
```

11. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5:

Restore the previous Db2 functions folder content:

- a. Copy the previous libraries into the Db2 function JAR directory.
- b. Remove the installed libraries from the Db2 function subdirectory DNI:

```
cp /opt/IBM/ftm/swift/v300/run/classes/dnics1.* /home/db2inst1/sqllib/function/jar/
chmod 750 /home/db2inst1/sqllib/function/jar/dnics1.*
chgrp dn1lpp /home/db2inst1/sqllib/function/jar/dnics1.*
rm /home/db2inst1/sqllib/function/jar/DNI/DNICS*.jar
```

12. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5:

Restore the previous FTM SWIFT User Defined Functions by removing the installed function JAR files:

```
rm /home/db2inst1/sqllib/function/jar/DNI/*RTN.jar
```

13. If your migration starting point was FTM SWIFT fix pack level 3.0.0.4 or 3.0.0.5:

Stop and restart the database.

14. Restart all FTM SWIFT message brokers.

15. Deploy previous FTM SWIFT BAR files:

```
./var/ftmswift_v300/run/dniprofile
dniczbap -cmd prepare -update old -deploy [-broker broker_name]
```

16. Verify the deployed BAR files:

```
dniczbap -cmd list -flow DNI_SYSADM
```

The deployment was successful if the displayed version contains the fixpack that was your migration starting point.

17. Re-activate FTM SWIFT accounting if you use the SIPN FIN or FMT FIN service.
18. Restart all FTM SWIFT related message flows.
19. Restore the IBM WebSphere Application Server profile backups.
20. Restart all FTM SWIFT application servers.
21. Restart all sessions and services.
22. Restore your IBM Integration Toolkit workstation if you updated it during Installation:
  - a. Restore your Toolkit dropins directory.
  - b. Restore your Toolkit workspace.
  - c. Deploy your restored message flows.
23. If you use SAG Add-On, roll back the SAG Add-On to the previous level.
24. Restore the backup of your customized administrative scripts created in step 6 on page 4 (separated file systems) or 9 on page 8 (shared file system):

```
rm -rf /var/ftmswift_v300/cus/depdata/INST1/admin/*  
cp ~/admin_scripts_backup/* /var/ftmswift_v300/cus/depdata/INST1/admin/
```



---

## Chapter 3. Summary of changes

### 3.0.0.8

- Resource class CFGPF: Modified enterprise applications
  - MER facility: dnq.app.main.ear
  - RMA: dnf.rma.web.ear
  - AO facility: dnp.ado.web.ear
- Modified configuration types
  - If you use FIN:
    - The following attributes were added to configuration type DnfLTApplicationSettings:
      - UETRGenerate
      - UETRResponse
  - If you use DNQER, DNQROUTS, DNQPRINT or DNQSDF:
    - The following attributes were added to configuration type DnqERMessageRightsDNIFIN:
      - FIN708
      - FIN744
      - FIN759
    - The following attributes were added to configuration type DnqERMessageRightsDNIMX:
      - adm.017.001
      - auth.016.001
      - auth.017.001
      - auth.031.001
      - auth.032.001
      - auth.033.001
      - auth.035.001
      - auth.036.001
      - auth.039.001
      - auth.040.001
      - auth.041.001
      - auth.042.001
      - auth.043.001
      - auth.044.001
      - auth.045.001
      - auth.047.001
      - auth.048.001
      - auth.049.001
      - auth.050.001
      - camt.071.001
      - camt.088.001
      - fxtr.008.001

- fxtr.013.001
- fxtr.014.001
- fxtr.015.001
- fxtr.016.001
- fxtr.017.001
- fxtr.030.001
- reda.060.001
- reda.061.001
- supl.032.001
- supl.033.001
- Modified configuration objects
  - If you use DNQER, DNQRROUTS, DNQPRINT or DNQSDF:
    - The following pseudo attributes were added to configuration object ALL of configuration type DnqERMessageRightsDNIFIN:
      - FIN708
      - FIN744
      - FIN759
    - The following pseudo attributes were added to configuration object ALL of configuration type DnqERMessageRightsDNIMX:
      - admi.017.001
      - auth.016.001
      - auth.017.001
      - auth.031.001
      - auth.032.001
      - auth.033.001
      - auth.035.001
      - auth.036.001
      - auth.039.001
      - auth.040.001
      - auth.041.001
      - auth.042.001
      - auth.043.001
      - auth.044.001
      - auth.045.001
      - auth.047.001
      - auth.048.001
      - auth.049.001
      - auth.050.001
      - camt.071.001
      - camt.088.001
      - fxtr.008.001
      - fxtr.013.001
      - fxtr.014.001
      - fxtr.015.001
      - fxtr.016.001

- fxtr.017.001
- fxtr.030.001
- reda.060.001
- reda.061.001
- supl.032.001
- supl.033.001
- Changed Toolkit resources
  - Toolkit dropin: com.ibm.dni.api.jar
  - Message Sets: dni.schemas.comibmdni.zip, dni.schemas.swiftFin2016/7/8.zip
- Modified MTXML schema files
 

For SR2018 a set of new schema files for the MTXML representation of FIN messages is provided. If you have customer implementations, for example Routing logic, you might have to adapt this logic. You might use the SWIFT UHB or MyStandards to identify the SR2018 related changes.

In addition to the SR2018 related changes introduced to satisfy business requirements, SWIFT published the following changes for MTXML.

*Table 1. Additional MTXML changes*

Description	Impacted Fields	Impacted Messages
Messages of Category 7 have been drastically changed in SR2018. It is recommended to fully review the implementation of those messages.	All	Category 7
Type F92R_Type renamed to F92R_1_type	F92R	564,565,566
Type Text_4Ec_Type renamed to Text_4Ec_1_Type	F94A	600,601

### 3.0.0.7

- New customization placeholders
  - DNIvDAGRP
  - DNIvDBGRP
  - DNIvDCGRP
- Resource class DB
  - New alias
    - DNI\_COS\_CT\_CON\_REL\_CTRL
    - DNI\_CT\_ATTR\_VALUE\_CTRL
    - DNI\_OU\_CTRL
    - DNI\_RO\_CT\_ATTR\_REL\_CTRL
    - DNI\_ROLE\_CTRL
    - DNI\_ROLEGROUP\_CTRL
    - DNI\_RG\_ROLE\_REL\_CTRL
    - DNI\_USR\_RG\_REL\_CTRL
    - DNI\_USER\_CTRL
    - DNI\_USR\_ROLE\_REL\_CTRL
    - DNI\_ROLE\_RESOLVED\_CTRL
    - DNI\_USER\_RESOLVED\_CTRL

- DNIMWH\_PT\_DNIvOU\_CTRL
- DNI\_A\_MSG\_DNIvOU\_CTRL
- DNI\_A\_USR\_DNIvOU\_CTRL
- DNI\_EVENT\_CTRL
- DNFO\_FSM\_STATE\_CTRL
- DNFO\_MSG\_PART\_CTRL
- DNFO\_LOB\_DATA\_CTRL
- DNFO\_FSM\_RCV\_MSG\_CTRL
- DNFO\_FSM\_SND\_MSG\_CTRL
- DNFO\_FSM\_SEND\_CTRL
- DNFO\_FSM\_RECEIVE\_CTRL
- DNFO\_FSM\_PROVDL\_CTRL
- DNFO\_FSM\_RSPDL\_CTRL
- DNFO\_FSM\_DOWNLOAD\_CTRL
- DNFO\_CONFIG\_DATA\_CTRL
- DNFO\_MWH\_DATA\_CTRL
- DNF\_IAMS\_CTRL
- DNF\_OAMS\_CTRL
- DNFMWHFIN\_DNIvOU\_CTRL
- DNF\_RMAD\_CTRL
- DNF\_RMAP\_CTRL
- DNF\_RMAH\_CTRL
- DNF\_RMQS\_CTRL
- DNF\_RMQH\_CTRL
- New tables
  - DNI\_COS\_CT\_CON\_REL\_CTRLA / DNI\_COS\_CT\_CON\_REL\_CTRLB
  - DNI\_CT\_ATTR\_VALUE\_CTRLA / DNI\_CT\_ATTR\_VALUE\_CTRLB
  - DNI\_OU\_CTRLA / DNI\_OU\_CTRLB
  - DNI\_RO\_CT\_ATTR\_REL\_CTRLA / DNI\_RO\_CT\_ATTR\_REL\_CTRLB
  - DNI\_ROLE\_CTRLA / DNI\_ROLE\_CTRLB
  - DNI\_ROLEGROUP\_CTRLA / DNI\_ROLEGROUP\_CTRLB
  - DNI\_RG\_ROLE\_REL\_CTRLA / DNI\_RG\_ROLE\_REL\_CTRLB
  - DNI\_USR\_RG\_REL\_CTRLA / DNI\_USR\_RG\_REL\_CTRLB
  - DNI\_USER\_CTRLA / DNI\_USER\_CTRLB
  - DNI\_USR\_ROLE\_REL\_CTRLA / DNI\_USR\_ROLE\_REL\_CTRLB
  - DNI\_ROLE\_RESOLVED\_CTRLA / DNI\_ROLE\_RESOLVED\_CTRLB
  - DNI\_USER\_RESOLVED\_CTRLA / DNI\_USER\_RESOLVED\_CTRLB
  - DNIMWH\_PT\_DNIvOU\_CTRLB
  - DNI\_A\_MSG\_DNIvOU\_CTRLA / DNI\_A\_MSG\_DNIvOU\_CTRLB
  - DNI\_A\_USR\_DNIvOU\_CTRLA / DNI\_A\_USR\_DNIvOU\_CTRLB
  - DNI\_EVENT\_CTRLA / DNI\_EVENT\_CTRLB
  - DNFO\_FSM\_STATE\_CTRLA / DNFO\_FSM\_STATE\_CTRLB
  - DNFO\_MSG\_PART\_CTRLA / DNFO\_MSG\_PART\_CTRLB
  - DNFO\_LOB\_DATA\_CTRLA / DNFO\_LOB\_DATA\_CTRLB
  - DNFO\_FSM\_RCV\_MSG\_CTRLA / DNFO\_FSM\_RCV\_MSG\_CTRLB



- DNFO\_FSM\_SND\_MSG\_CTRLA / DNFO\_FSM\_SND\_MSG\_CTRLB
- DNFO\_FSM\_SEND\_CTRLA / DNFO\_FSM\_SEND\_CTRLB
- DNFO\_FSM\_RECEIVE\_CTRLA / DNFO\_FSM\_RECEIVE\_CTRLB
- DNFO\_FSM\_PROVDL\_CTRLA / DNFO\_FSM\_PROVDL\_CTRLB
- DNFO\_FSM\_RSPDL\_CTRLA / DNFO\_FSM\_RSPDL\_CTRLB
- DNFO\_FSM\_DOWNLOAD\_CTRLA / DNFO\_FSM\_DOWNLOAD\_CTRLB
- DNFO\_CONFIG\_DATA\_CTRLA / DNFO\_CONFIG\_DATA\_CTRLB
- DNFO\_MWH\_DATA\_CTRLA / DNFO\_MWH\_DATA\_CTRLB
- DNF\_IAMS\_CTRLB
- DNF\_OAMS\_CTRLB
- DNF\_MWHFIN\_DNIvOU\_CTRLB
- DNF\_RMAD\_CTRLA / DNF\_RMAD\_CTRLB
- DNF\_RMAP\_CTRLA / DNF\_RMAP\_CTRLB
- DNF\_RMAH\_CTRLA / DNF\_RMAH\_CTRLB
- DNF\_RMQS\_CTRLA / DNF\_RMQS\_CTRLB
- DNF\_RMQH\_CTRLA / DNF\_RMQH\_CTRLB
- Modified table structure
  - Added columns DI\_ID and DI\_CHG\_TS
    - DNI\_COS\_CT\_CON\_REL
    - DNI\_CT\_ATTR\_VALUE
    - DNI\_OU
    - DNI\_RO\_CT\_ATTR\_REL
    - DNI\_ROLE
    - DNI\_ROLEGROUP
    - DNI\_RG\_ROLE\_REL
    - DNI\_USR\_RG\_REL
    - DNI\_USER
    - DNI\_USR\_ROLE\_REL
    - DNI\_ROLE\_RESOLVED
    - DNI\_USER\_RESOLVED
    - DNI\_A\_MSG\_DNIvOU
    - DNI\_A\_USR\_DNIvOU
    - DNI\_EVENT
    - DNFO\_FSM\_STATE
    - DNFO\_MSG\_PART
    - DNFO\_LOB\_DATA
    - DNFO\_FSM\_RCV\_MSG
    - DNFO\_FSM\_SND\_MSG
    - DNFO\_FSM\_SEND
    - DNFO\_FSM\_RECEIVE
    - DNFO\_FSM\_PROVDL
    - DNFO\_FSM\_RSPDL
    - DNFO\_FSM\_DOWNLOAD
    - DNFO\_CONFIG\_DATA
    - DNFO\_MWH\_DATA

- DNF\_RMAD
- DNF\_RMAP
- DNF\_RMAH
- DNF\_RMQS
- DNF\_RMQH
- Dropped unique constraint OAMS\_UN from DNF\_OAMS
- Dropped foreign key constraint FK\_DNF\_OAMS\_ID from DNF\_OAMS\_CTRLA
- Renamed tables
  - DNIMWH\_PT\_DNIvOU\_CTRL to DNIMWH\_PT\_DNIvOU\_CTRLA
  - DNF\_IAMS\_CTRL to DNF\_IAMS\_CTRLA
  - DNF\_OAMS\_CTRL to DNF\_OAMS\_CTRLA
  - DNFMWHFIN\_DNIvOU\_CTRL to DNFMWHFIN\_DNIvOU\_CTRLA
- New sequence: SEQIAMS
- Updated Jar files for stored procedures
  - dnicsl.boots.jar
  - dnicsl.impl.jar
  - dnicdcfg.jar
  - dnicdusr.jar
- New stored procedure
  - DNI\_INSTALL\_DI\_TRIGGER
- Resource class CFGPF: Modified enterprise applications
  - MER facility: dnq.app.main.ear
  - RMA: dnf.rma.web.ear
  - AO facility: dnp.ado.web.ear
  - WebHome facility: dni.home.ear
- Modified role
  - add -ro DnfRmCfg -ct DniFileDir -co DniVault -attr \*
- Modified configuration type
  - If you use MSIF: add -ct DnfEfaSagMPOptionSet -attr lkn
- Changed Toolkit resources
  - Toolkit dropins: com.ibm.dni.api.jar and com.ibm.dnq.api.jar

### 3.0.0.6

- Resource class DB
  - New table space: DNICNTRL
  - New tables
    - DNI\_CCTRL
    - DNIMWH\_PT\_DNIvOU\_CTRL
    - DNFMWHFIN\_DNIvOU\_CTRL
    - DNF\_IAMS\_CTRL (FIN only)
    - DNF\_OAMS\_CTRL (FIN only)
  - Modified table structure
    - Added columns DI\_ID and DI\_CHG\_TS
      - DNIMWH\_PT\_DNIvOU

- DNFMWHFIN\_DNIvOU
- DNF\_IAMS (FIN only)
- DNF\_OAMS (FIN only)
- New procedures
  - DNI\_DIC\_INS
  - DNI\_DIC\_UPD
  - DNI\_DIC\_DEL
  - DNI\_CHECK\_CTRL\_ROW
  - All System and Security Administration procedures, e.g. DNI\_CREATE\_CT
- Dropped procedures: old System and Security Administration procedures, e.g. DNI9CREATE9CT (removed in Cleanup phase)
- Updated functions
  - DNIBLOB2VARCHAR
  - DNFMWHFINMSG
- Modified enterprise applications
  - MER facility: dnq.app.main.ear
  - RMA: dnf.rma.web.ear
  - AO facility: dnp.ado.web.ear
- Changed Toolkit resources
  - Message set: dni.schemas.comibmdni.zip
  - Message set projects: DNI\_DniMsgSetEnv contained in dni.project.interchange.zip
- The sample profile dniczpro.prf is changed.

### **3.0.0.5**

- Resource class DB
  - Altered tables
    - DNF\_ASP
- Message updates
  - New messages
    - DNFO3612E



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## Chapter 4. Copyright and trademark information

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## Chapter 5. Document change history

Date	Description of change
August 31, 2018	Initial publication date
Sep 13, 2018	Update z/OS download link and add SR2018 installation notice









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