IBM Financial Transaction Manager for SWIFT Services for Multiplatforms

Version 3.0.0

Readme
Fix Pack 9

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Version 3.0.0

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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 3.0.0.9.

Reference key: 20190201-1000

Contents

Chapter 1. General information 1
Download location 1
Prerequisites and co-requisites 1
What's new in FTM SWIFT 3.0.0, Fix Pack 9 1
Known Problems 2

Chapter 2. Installation information . . . 3
Installing FTM SWIFT 3.0.0.9 - Create a new installation 3
Installing FTM SWIFT 3.0.0.9 - Update an existing installation 3
Separated file systems: Preparing and Switching . 4
Shared file system: Preparing and Switching . . . 5
Cleaning up 6
Falling back to the previous fix pack level . . . 6

Chapter 3. Summary of changes 7

Chapter 4. Copyright and trademark information 15

Chapter 5. Document change history 17

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.

Download location

You can download FTM SWIFT 3.0.0.9 from Fix Central at the following location:

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

Search for the Fix ID: 3.0.0-FTM-SWS-MP-fp0009

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

  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
- 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 3.0.0.8 installed and all post-installation steps were finished.

What's new in FTM SWIFT 3.0.0, Fix Pack 9

The following changes were introduced:

Data integrity framework

Data integrity problems are now also written to syslog.

Housekeeping improvements

Stored procedures DNI_DI_OPEN and DNI_DI_CLOSE were introduced to enable SQL based maintenance using INSERT and DELETE statements on data integrity protected tables without requiring FTM SWIFT downtime.

Saving and purging configuration and security data was changed to make use of the new DNI_DI_OPEN and DNI_DI_CLOSE procedures.

FIN MTXML format changed

- All schema files were replaced due to a late update of MyStandards Base Libraries for SR2018.
- Type F72Z_148_Type was renamed to Text_4Ec_1_Type. This impacts MT 730 field F72Z.

New directory
The new directory `iFix` was introduced.

Known Problems

For a list of known problems refer to:
http://www.ibm.com/support/docview.wss?uid=swg22017050

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

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 3.0.0.9 - Create a new installation

If you have not installed FTM SWIFT yet:

1. Plan your system as described in Planning.
2. Install fix pack 3.0.0.9 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 3.0.0.9 - 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. Ensure that no customization operation is pending.
2. Ensure that no configuration or security administration change is pending.
3. 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
   ```
4. Use IBM Installation Manager to install the fix pack for FTM SWIFT 3.0.0.9.
5. Share the files in the *inst_dir*/admin directory with your customization system.
6. Update customization definition data, and create deployment instructions and vehicles.
7. If you plan manual deployment of the FTM SWIFT BAR files, follow Prepare BAR files for manual deployment.

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. Follow the instruction in Verifying the installation of the database routines.
11. Restart all FTM SWIFT message brokers.
12. Deploy BAR files.
13. Verify the deployed BAR files:

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

    The deployment was successful if the displayed version contains 3.0.0.9.

14. Re-activate FTM SWIFT accounting if you use the SIPN FIN or FMT FIN service.
15. Restart all FTM SWIFT related message flows.
16. Restart all FTM SWIFT enterprise applications.
17. Restart all sessions and services.

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. Ensure that no customization operation is pending.
2. Ensure that no configuration or security administration change is pending.
3. 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 3.0.0.9.
8. Update customization definition data, and create deployment instructions and vehicles.
9. Back up your runtime database.
10. Open and follow the deployment instructions.
11. Follow the instruction in Verifying the installation of the database routines.
12. Restart all FTM SWIFT message brokers.
13. If you plan manual deployment of the FTM SWIFT BAR files, follow Prepare BAR files for manual deployment.
14. Deploy BAR files.
15. Verify the deployed BAR files:

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

    The deployment was successful if the displayed version contains 3.0.0.9.
16. Re-activate FTM SWIFT accounting if you use the SIPN FIN or FMT FIN service.
17. Restart all FTM SWIFT related message flows.
18. Restart all FTM SWIFT enterprise applications.
19. Restart all sessions and services.

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. Remove the backup of your customized administrative scripts created in step 3 on page 4 (separated file systems) or 3 on page 5 (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 the backup of your runtime database.
9. To revert the FTM SWIFT database related changes run the following command:

   ```
   db2 +c -z fbfp9.log -svf deployment_dir/instance/admin/dnifbfp9.ddl
   ```

10. Restart all FTM SWIFT message brokers.
11. Deploy previous FTM SWIFT BAR files:

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

12. Verify the deployed BAR files:

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

    The deployment was successful if the displayed version contains the fix pack that was your migration starting point.
13. Re-activate FTM SWIFT accounting if you use the SIPN FIN or FMT FIN service.
14. Restart all FTM SWIFT related message flows.
15. Restore the IBM WebSphere Application Server profile backups.
16. Restart all FTM SWIFT application servers.
17. Restart all sessions and services.
18. Restore the backup of your customized administrative scripts created in step 3 on page 4 (separated file systems) or 3 on page 5 (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

3.0.0.9

- Resource class DB
  - New variable
    - DI_SESSION_INFO
  - New stored procedures
    - DNI_DI_OPEN
    - DNI_DI_CLOSE
    - DNI_DI_CHECK
    - DNI_DI_CHECK_INSERT
    - DNI_DI_CHECK_UPDATE
    - DNI_WRITE_SYSLOG
    - DNI_WRITE_SYSLOG_CODE
  - Modified stored procedures
    - DNI_DIC_INS
    - DNI_DIC_UPD
    - DNI_DIC_DEL
    - DNI_CHECK_CTRL_ROW
  - New Jar file for stored procedures
    - dni.sec.jar
  - Updated Jar files for stored procedures
    - dnicdrtn.jar
    - dnicdcfg.jar
- Resource class CFGPF: Modified enterprise applications
  - MER facility: dnq.app.main.ear

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`:
  - 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

- Modified configuration objects
  - If you use DNQER, DNQROUTS, 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

Table 1. Additional MTXML changes (continued)

Description	Impacted Fields	Impacted Messages
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
- DNFMWHFIN_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

Chapter 4. Copyright and trademark information

http://www.ibm.com/legal/copytrade.shtml

Chapter 5. Document change history

Date	Description of change
January 31, 2019	Initial publication date

Product Number: 5725-X92

Printed in USA