

Upgrading to FTM 4.0.3.0 interim fix 2 (iFix2) in a customer environment

The 4.0.3.0 interim fix 2 (iFix2) supports the following types of installations:

- A full (or fresh) installation on a clean system. For more information about how to do a full installation, see <https://www.ibm.com/docs/en/ftfmf/4.0.3?topic=financial-transaction-manager-red-hat-openshift>
- Upgrade a system that has FTM for Interac e-Transfers 4.0.3.0 interim fix 1 (iFix1) installed to the 4.0.3.0 interim fix 2 (iFix2) level.

This documentation describes how to do an upgrade from 4.0.3.0 interim fix 1 (iFix1) to 4.0.3.0 interim fix 2 (iFix2)

Prerequisite for air gap clusters: Mirror the images to the external environment. For more information, see <https://www.ibm.com/docs/en/ftfmf/4.0.3?topic=device-mirror-images-external-host>.

Prerequisite for an upgrade installation:

- The 4.0.3 iFix1 version must be installed and running on the cluster.

Use the following table to understand the operator and operand versioning.

Release	Channel	Operator version	Operand version	Supported operands
403-GA	v4.0	4.0.0	4.0.3.0	4.0.3.0 only
403-iFix1	v4.0	4.0.1	4.0.3.0_iFix1	4.0.3.0 and 4.0.3.0_iFix1
403-iFix2	v4.0	4.0.2	4.0.3.0_iFix2	4.0.3.0, 4.0.3.0_iFix1 and 4.0.3.0_iFix2

Note: If the catalog images are integrated with the cluster by using the latest tag, skip the step 1 section.

Step1: Manual steps for the catalog upgrade.

1. The cluster administrator updates the catalog source as follows: Log in to the OCP cluster as the cluster administrator.

Click **Administration > Cluster Settings > Global Configuration > OperatorHub**

The screenshot shows the Red Hat OpenShift Container Platform web interface. The left sidebar is expanded to show 'Administration' and 'Cluster Settings' are selected. The main content area is titled 'Cluster Settings' and has tabs for 'Details', 'Cluster Operators', and 'Global Configuration', with 'Global Configuration' being the active tab. A search bar contains the text 'operator'. Below the search bar, there is a table with two rows. The first row is 'ClusterVersion' with a description: 'ClusterVersion is the configuration for the ClusterVersionOperator. This is where parameters related to automatic updates can be set.' The second row is 'OperatorHub' with a description: 'OperatorHub is the Schema for the operatorhub API. It can be used to change the state of the default hub sources for OperatorHub on the cluster from enabled to disabled and vice versa.' A context menu is open over the second row, with the 'Edit CatalogSource' option highlighted. The table has columns: 'Name', 'Publisher', 'Availability', 'Endpoint', and '# of Operators'. The 'ibm-ftm-dp-interac-e-transfers-send-catalog' row has the following values: IBM, Cluster wide, ip-ftm-v4-team-dev-docker-local.artifactory.swg-devops.com/ibmcom/ibm-ftm-dp-interac-e-transfers-send-catalog:QAS_cluster, 1, and a yellow-highlighted 'Edit CatalogSource' button.

2. Click [Sources](#) > click the overflow menu of the catalog that you want to modify > [Edit CatalogSource](#)
3. Replace the iFix1 image sha256 value with the following iFix2 image sha256 value and click [Save](#).

Operator Catalogs	Interim fix 2 sha256 values.
FTM Base	docker.io/ibmcom/ibm-ftm-base-catalog@sha256:be8a949e3f9fe86d0828dbecca4205ddebb057065e52e14155aa1fc75c7290b3
FTM IP	docker.io/ibmcom/ibm-ftm-ip-catalog@sha256:47ecb8907e12724803f91a78ee1dc3c1618cb061098ba7bbd9a839b9a5c1d102
FTM DP	docker.io/ibmcom/ibm-ftm-dp-catalog@sha256:62aaf2e6e3d16b99c009ae2c236ea7c861a28189e08135a3e867f43a6585eb32
FTM Interac	docker.io/ibmcom/ibm-ftm-dp-interac-e-transfers-send-catalog@sha256:02d449b2daafc72cae57bc21f496434729628da4ddd56a8d8357fdcc4fc1c5ce

Step 2: Manual steps for the operator and the operand upgrade.

Operator upgrade

Note: If the approval strategy is set to automatic, the operator is automatically upgraded to v4.0.2. If the approval strategy is set to manual, follow these steps

1. Click [Installed Operators](#) and wait until you see the Upgrade available option under the status section of the operators, as shown in the following screen capture. This message might take up to 10 minutes to appear.

Operator	Version	Provider	Status	Actions
IBM FTM-DP-Interac e-Transfers Send	4.0.1	provided by IBM	Succeeded Upgrade available	IBM FTM Interac e-Transfers Artifacts IBM FTM Interac e-Transfers Reference IBM FTM Interac e-Transfers Simulators IBM FTM Interac e-Transfers Runtime
IBM FTM-Base	4.0.1	provided by IBM	Succeeded Upgrade available	IBM FTM-Base Artifacts IBM FTM Base Runtime
IBM FTM-DP	4.0.1	provided by IBM	Succeeded Upgrade available	IBM FTM DP Artifacts IBM FTM DP Runtime
IBM FTM-IP	4.0.1	provided by IBM	Succeeded Upgrade available	IBM FTM-IP Artifacts IBM FTM IP Runtime
Operand Deployment Lifecycle Manager	1.3.1	provided by IBM	Up to date	OperandBindInfo OperandConfig OperandRegistry OperandRequest

Note: The previous screen capture applies to OCP v4.6. For OCP v4.5, the status is shown as updating.

2. Click the [Upgrade available](#) For example, [IBM FTM-DP-Interac e-Transfers-Send Operator](#).

Project: interac1				
 IBM FTM-DP-Interac e-Transfers Send	4.0.1 provided by IBM	 interac1	 Succeeded  Upgrade available	IBM FTM Interac e-Transfers Artifacts IBM FTM Interac e-Transfers Reference IBM FTM Interac e-Transfers Simulators IBM FTM Interac e-Transfers Runtime
 IBM FTM-Base	4.0.1 provided by IBM	 interac1	 Succeeded  Upgrade available	IBM FTM-Base Artifacts IBM FTM Base Runtime
 IBM FTM-DP	4.0.1 provided by IBM	 interac1	 Succeeded  Upgrade available	IBM FTM DP Artifacts IBM FTM DP Runtime
 IBM FTM-IP	4.0.1 provided by IBM	 interac1	 Succeeded  Upgrade available	IBM FTM-IP Artifacts IBM FTM IP Runtime
 Operand Deployment Lifecycle Manager	1.3.1 provided by IBM	 interac1	 Succeeded Up to date	OperandBindInfo OperandConfig OperandRegistry OperandRequest

3. Click [Preview Install Plan](#).

Review Manual Install Plan
Inspect the requirements for the components specified in this install plan before approving.

[Preview Install Plan](#)

4. Click [Approve](#).

Review Manual Install Plan
Once approved, the following resources will be created in order to satisfy the requirements for the components specified in the plan. Click the resource name to view the resource in detail.

[Approve](#) [Deny](#)

5. Go to [Installed Operators > Operator Name > Subscription](#). After a successful installation, the following information is displayed.

Subscription Details

Channel	Approval	Upgrade Status	{	1 installed
v4.0 	Manual 	 Up to date		0 installing

Name Installed Version [CSV](#) `ftminterac-e-transfers-operator:v4.0.2`

Namespace  Starting Version `ftminterac-e-transfers-operator:v4.0.1`

Labels [Edit](#) Catalog Source [CS](#) `ibm-ftm-dp-interac-e-transfers-send-catalog`  Healthy

Created At  `May 14, 1:07 pm` Install Plan [IP](#) `install-zcwkt`

The current installed version is updated to 4.0.2.

Note: If the operators were not automatically upgraded to v4.0.2, repeat this process for the remaining operators. That is, the operators for FTM base, FTM for Immediate Payments, FTM for Digital Payments, and FTM for Interac e-Transfers.

Operand Upgrade

Use the following steps to upgrade the operand from version 4.0.3.0_iFix1 to 4.0.3.0_iFix2

1. Log in to the OCP
2. Switch to your project.
➤ `oc project <project-name>`
3. Get the artifact instance and edit the running artifact instance. Edit only the offering.

Product name	Command	Update version and save.
FTM Base	<code>oc get ftmbaseartifacts</code> <code>oc edit ftmbaseartifacts <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> version: 4.0.3.0_iFix2</code>
FTM for Immediate Payments	<code>oc get ftmipartifacts</code> <code>oc edit ftmipartifacts <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> version: 4.0.3.0_iFix2</code>
FTM for Digital Payments	<code>oc get ftmdpartifacts</code> <code>oc edit ftmdpartifacts <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> version: 4.0.3.0_iFix2</code>
FTM for Interac e-Transfers	<code>oc get ftminteracetransferartifacts</code> <code>oc edit ftminteracetransferartifacts <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> version: 4.0.3.0_iFix2</code>

Note: You can use the new files to modify the external Db2 database.

4. Edit the running FTM application instance. Edit only the offering.

Change the DR mode to passive and wait until all (that is, J2EE, J2SE, IBM MQ, and App Connect Enterprise) pods scale down to zero. You might need to wait approximately 10 minutes. The artifacts and simulator pods keep running because they are not a part of the disaster recovery (DR) activity.

Product name	Command	Update dr mode and save.
FTM Base	<code>oc get ftmbase</code> <code>oc edit ftmbase <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> dr:</code> <code> mode: passive</code>
FTM for Immediate Payments	<code>oc get ftmip</code> <code>oc edit ftmip <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> dr:</code> <code> mode: passive</code>
FTM for Digital Payments	<code>oc get ftmdp</code> <code>oc edit ftmdp <instance-name></code>	<code>spec:</code> <code> license:</code> <code> accept: true</code> <code> dr:</code> <code> mode: passive</code>
FTM for Interac e-Transfers	<code>oc get ftminteracetransfers</code>	<code>spec:</code>

	<pre>oc edit ftminteracetransfers <instance-name> oc get ftminteracetransferreferences oc edit ftminteracetransferreferences <instance-name></pre>	<pre>license: accept: true dr: mode: passive</pre>
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5. Edit the running instance again to upgrade the operand. Edit only the offering.

Change the DR mode to active. Update the operand version from 4.0.3.0_iFix1 to 4.0.3.0_iFix2. Then, save the changes.

Note: Ensure that the bolded/colored section (in the 3rd column) is updated in the running instance custom resource.

It is recommended to not enable the init containers when you do the upgrade, instead enable it after the upgrade. For more information about enabling the init containers after doing the interim fix upgrade, see the init container documentation.

Product name	Command	Update dr mode, add configuration and save.
FTM Base	<pre>oc get ftmbase oc edit ftmbase <instance-name></pre>	<pre>spec: license: accept: true dr: mode: active version: 4.0.3.0_iFix2</pre>
FTM for Immediate Payments	<pre>oc get ftmip oc edit ftmip <instance-name></pre>	<pre>spec: license: accept: true dr: mode: active version: 4.0.3.0_iFix2</pre>
FTM for Digital Payments	<pre>oc get ftmdp oc edit ftmdp <instance-name></pre>	<pre>spec: license: accept: true dr: mode: active version: 4.0.3.0_iFix2</pre>

FTM for Interac e-Transfers	<pre>oc get ftminteracetransfers oc get ftminteracetransfersimulators oc get ftminteracetransferreferences if the instance was created by the runtime Note: Update the simulators instance first. oc edit ftminteracetransfersimulators <instance-name> oc edit ftminteracetransfers <instance-name> if the instance was created by the reference oc edit ftminteracetransferreferences <instance-name></pre>	For Runtime Instance: <pre>spec: license: accept: true dr: mode: active version: 4.0.3.0_iFix2</pre> For Simulator Instance: <pre>spec: license: accept: true version: 4.0.3.0_iFix2</pre>
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Wait until the 4.0.3.0_iFix2 operand pods are created. The artifacts and simulators pods are re-created if they are a part of the existing deployment. After a successful upgrade, all the pods are in a running state.