

SAMSUNG ELECTRONICS

Knox E-FOTA On-Premises

**Guidance for Upgrade to DFM 1.0.1.8
from DFM 1.0.1.7**

Version : 1.7

Last Update : Jun 2024

Document History

<i>What</i>	<i>Ver.</i>	<i>When</i>
I. Added: Guidance for upgrade to DFM 1.0.1.8 ← There are a couple of items that have changed: 1) changed Docker image files, 2) alter table, 3) New Feature: Configurable license app enabled, port, core run command, 4) Background app setting	Ver1.7	June 2024
I. Added: Guidance for upgrade to DFM 1.0.1.7 ← There are a couple of items that have changed: 1) changed Docker image files, 2) New Feature: Configurable device group polling	Ver1.6	Oct 2023
I. Added: Guidance for upgrade to DFM 1.0.1.6 ← There are a couple of items that have changed: 1) changed Docker image files, 2) alter table, 3) New Feature: Configurable device group polling	Ver1.5	Apr 2023
I. Added: Guidance for upgrade to DFM 1.0.1.5 ← There are a couple of items that have changed: 1) changed Docker image files	Ver1.4	Jul 2022
I. Added: Guidance for upgrade to DFM 1.0.1.4 ← There are a couple of items that have changed: 1) changed Docker image files, 2), New Feature: Configurable length of password digits	Ver1.3	Mar 2022
I. Added: Guidance for upgrade to DFM 1.0.1.3 ← There are a couple of items that have changed: 1) changed Docker image files	Ver1.2	Jan 2022
I. Added: Guidance for upgrade to DFM 1.0.1.1 ← There are a couple of items that have changed: 1) changed Docker image files, 2), alter table	Ver1.1	Sep 2021
I. Added: Guidance for upgrade to DFM 1.0.1.1 ← There are a couple of items that have changed: 1) changed Docker image files, 2) changed HAProxy configurations (haproxy.cfg and error files)	Ver1.0	Nov 2020

[ADDENDUM] : Upgrade from 1.0.1.7 to 1.0.1.8

1.1. Purpose of this document

The purpose of this document is to provide instructions to **upgrade a system with DFM 1.0.1.7 to 1.0.1.8**. If DFM has never been installed on the server, skip this process and follow the new installation process document.

1.2. Why should DFM Docker images be patched?

- Various bug fixes
- New feature: Configurable license app port and license app enabled, Console makes download url of apk file into qr-code

1.3. What is changed in version 1.0.1.7?

	Category	Summary
1	Set-up license app port and license app enabled, core run command	- Using DFM cli
2	Docker image	- dfm-core image - dfm-console image
3	Mysql	- Alter table

1. Changed two Docker image files from the previous DFM 1.0.1.7 version:
 - dfm-core
 - dfm-console

Docker images	DFM 1.0.1.7	DFM 1.0.1.8
dfm-core	repository : dfm-core tag : 1.0.1.7	repository : dfm-core tag : 1.0.1.8
dfm-console	repository : dfm-console tag : 1.0.1.7	repository : dfm-console tag : 1.0.1.8
dfm-minio	repository : minio/minio tag : RELEASE.2020-06-01T17-28-03Z	repository : minio/minio tag : RELEASE.2020-06-01T17-28-03Z
dfm-mysql	repository : mysql/enterprise-server tag : 8.0	repository : mysql/enterprise-server tag : 8.0
dfm-proxy	repository : haproxytech/haproxy-debian tag : 2.1.4	repository : haproxytech/haproxy-debian tag : 2.1.4

1.4. Update the DFM Module

During the update, a short circuit may occur.

The DFM Module is logged in with a **dedicated service account** and operates with the privileges of the account. You should log in with the account you used to install before.

1.4.1. Install v1.0.1.8 DFM Module Package

Here is a command showing how to install the v1.0.1.8 Debian package:

1) check if v1.0.1.8 is installed

```
dpkg -l | grep sec-dfm
```

example:

```
$ dpkg -l | grep sec-dfm
ii  sec-dfm  1.0.1.8  all  Samsung Enterprise fota dfm package
$
```

2) install

```
sudo dpkg -i sec-dfm_1.0.1.8.deb
```

example:

```
$ sudo dpkg -i sec-dfm_1.0.1.8.deb
(Reading database ... 372179 files and directories currently installed.)
Preparing to unpack sec-dfm_1.0.1.8.deb ...
Unpacking sec-dfm (1.0.1.7) over (1.0.1.8) ...
Setting up sec-dfm (1.0.1.8) ...
$

$ dpkg -l | grep sec-dfm
ii  sec-dfm  1.0.1.8  all  Samsung Enterprise fota dfm package
$
```

1.4.2. Copy Background app files

[STEP 1] Create Directories

Example)

```
sudo mkdir -p /dfm/background
sudo chwon -R nightwatch:nightwatch /dfm/background
```

[STEP 2] copy background files, set executable

Example)

```
// copy background files
cp /tmp/dfm/licenseApp /dfm/background/

// Set executable
sudo chmod 744 /dfm/background/licenseApp
```

1.4.3. Start up Background app file

【STEP 1】 Command to run the background app

```
Example)
sudo systemctl daemon-reload
sudo systemctl enable efota-license.service
sudo systemctl start efota-license.service
```

【STEP 2】 Validation

```
Example)
sudo systemctl status efota-license.service
Loaded: loaded (/etc/systemd/system/efota-license.service; enabled; vendor preset: enabled)
Active: active (running) since Tue 2024-XX-XX 06:39:10 UTC; 7s ago
Main PID: 2028 (licenseApp)
```

1.4.4. Configure license app port and license app enabled

【STEP 1】 Check the DFM CLI version.

```
dfm version
version: 1.0.1.8
```

【STEP 2】 Set the license app ip

If you enter an empty value in ip, it is set automatically.

```
Example)
dfm config set license_app_ip=
```

【STEP 3】 Set the license app port (Allowed values: integer type).

```
Example)
dfm config set license_app_port=10030
```

【STEP 4】 Confirm the configurations.

```
dfm config get license_app_ip
dfm config get license_app_port
```

1.4.5. Configure core run command

【STEP 1】 Check the DFM CLI version.

```
dfm version
version: 1.0.1.8
```

【STEP 2】 Set the core run command

```
Example)
dfm config set opt_core_run_cmd="--log-driver json-file --log-opt max-size=5m --log-opt max-
file=10 --restart=on-failure --security-opt=no-new-privileges --health-cmd='curl --fail
http://127.0.0.1:10080/index.html || exit 1'"
```

【STEP 4】 Confirm the configurations.

```
dfm config get opt_core_run_cmd
```

1.4.6. Alter Table

1) Alter table using an SQL script

```
1) Executing an SQL script
docker exec -i dfm-mysql mysql -uroot -p[password] < /tmp/dfm/mysql-query/patch_1.0.1.8.sql
```

1.4.7. DFM Core Update

The released **Core** image information is as follows:

- Docker image : dfm-core-1.0.1.8.tar
- repository : dfm-core
- tag : 1.0.1.8

【STEP 1】 Stop the running core server.

```
dfm terminate dfm-core
```

【STEP 2】 Load the released Docker image.

```
docker load < /tmp/dfm/docker-images/dfm-core-1.0.1.8.tar
```

【STEP 3】 Change the repository and tag configuration

```
dfm config set core_img_rep=dfm-core  
dfm config set core_img_tag=1.0.1.8
```

【STEP 4】 Confirm the changed repository and tag configuration

```
dfm config get core_img_rep  
dfm config get core_img_tag
```

【STEP 5】 Start up the Server

- DFM Core Server

```
dfm start dfm-core
```

【Validation】

Run the following command to ensure the core container is in a healthy state. It takes some time until its state is healthy.

```
docker ps -a
```

1.4.8. DFM Admin Console Update

The released **Admin Console** image information is as follows:

- docker image : dfm-console-1.0.1.8.tar
- repository : dfm-console
- tag : 1.0.1.8

【STEP 1】 Stop the running console server

```
dfm terminate dfm-console
```

【STEP 2】 Load the released Docker image.

```
docker load < /tmp/dfm/docker-images/dfm-console-1.0.1.8.tar
```

【STEP 3】 Change repository and tag configuration

```
dfm config set console_img_rep=dfm-console  
dfm config set console_img_tag=1.0.1.8
```

【STEP 4】 Confirm the changed repository and tag configuration

```
dfm config get console_img_rep  
dfm config get console_img_tag
```

【STEP 5】 Start up the server

- Admin Console Server

```
dfm start dfm-console
```

【Validation】

Make sure admin console container is in a healthy state. It takes some time until its state is healthy.

```
docker ps -a
```

< **EOF** (End Of File) >