

SAMSUNG ELECTRONICS

Knox E-FOTA On-Premises

**Guidance for Upgrade to DFM 1.0.1.7
from DFM 1.0.1.6**

Version : 1.6

Last Update : Oct 2023

[[Document History](#)]

What	Ver.	When
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 1.0.1.6 to 1.0.1.7

1.1. Purpose of this document

The purpose of this document is to provide instructions to **upgrade a system with DFM 1.0.1.6 to 1.0.1.7**. 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 device polling interval and postpone waiting time

1.3. What is changed in version 1.0.1.6?

	Category	Summary
1	Set-up device polling interval and postpone waiting time	- Using DFM cli
2	Docker image	- dfm-core image - dfm-console image

1. Changed two Docker image files from the previous DFM 1.0.1.5 version:
 - dfm-core
 - dfm-console

Docker images	DFM 1.0.1.6	DFM 1.0.1.7
dfm-core	repository : dfm-core tag : 1.0.1.6	repository : dfm-core tag : 1.0.1.7
dfm-console	repository : dfm-console tag : 1.0.1.6	repository : dfm-console tag : 1.0.1.7
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 v1.0.1.7 DFM Module Package

Here is a command showing how to install the v1.0.1.7 Debian package:

1) check if v1.0.1.6 is installed

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

example:

```
$ dpkg -l | grep sec-dfm
ii  sec-dfm  1.0.1.6  all  Samsung Enterprise fota dfm package
$
```

2) install

```
sudo dpkg -i sec-dfm_1.0.1.7.deb
```

example:

```
$ sudo dpkg -i sec-dfm_1.0.1.7.deb
(Reading database ... 265246 files and directories currently installed.)
Preparing to unpack sec-dfm_1.0.1.7.deb ...
Unpacking sec-dfm (1.0.1.7) over (1.0.1.6) ...
Setting up sec-dfm (1.0.1.7) ...
$

$ dpkg -l | grep sec-dfm
ii  sec-dfm  1.0.1.7  all  Samsung Enterprise fota dfm package
$
```

1.4.2. Configure Device polling interval and postpone waiting time

【STEP 1】 Check the DFM CLI version.

```
dfm version
version: 1.0.7
```

【STEP 2】 Set the device polling interval (Allowed values: integer type).

```
Example)
dfm config set polling_interval_register =84200e
```

【STEP 3】 Set the default waiting time (Allowed values: 1 to 7200).

```
Example)
dfm config set default_waiting_time =30
```

【STEP 4】 Confirm the configurations.

```
dfm config get polling_interval_register
dfm config get default_waiting_time
```

1.4.3. DFM Core Update

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

- Docker image : dfm-core-1.0.1.7.tar
- repository : dfm-core
- tag : 1.0.1.7

【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-1.0.1.7.tar
```

【STEP 3】 Change the repository and tag configuration

```
dfm config set core_img_rep=dfm-core
dfm config set core_img_tag=1.0.1.7
```

【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
```

1.4.4. DFM Admin Console Update

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

- docker image : dfm-console-1.0.1.7.tar
- repository : dfm-console
- tag : 1.0.1.7

【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-1.0.1.7.tar
```

【STEP 3】 Change repository and tag configuration

```
dfm config set console_img_rep=dfm-console  
dfm config set console_img_tag=1.0.1.7
```

【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
```

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