

FlexMaster

Certificate Renewal Guide

Document Revisions

Version	Date	Description
1.1	March 13, 2017	Initial document

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1. Introduction

The original FlexMaster (a.k.a. FM) certificate will expire on March 26, 2017. Once the certificate expires, the HTTPS connection from Ruckus standalone APs and ZoneDirector (a.k.a. ZD) to FM will not be established any more, as a consequence FM will fail to fetch any data from the AP and the ZD.

To resolve this issue, we recommend customers to upgrade their FM and ZD to version 9.13 or later, and standalone APs to version 104.0 or later. Refer to the FM 9.13.x Release Notes for instructions to upgrade the image.

Customers who do not plan to upgrade their systems, still have the option to follow this guide to renew FM's server certificate, ZD's Trusted CA certificate, and change the standalone AP connection with FM to use HTTP, to avoid this issue.

2. Available Scripts

Three sets of scripts are available to serve:

- FM Script: To renew FM server certificate.
- **ZD Script**: To renew ZD Trusted CA certificate.
- **Standalone AP Script**: As one of the options to change AP and FM connection configuration from using HTTPS to HTTP.

NOTE: Customers who need to use HTTPS, must upgrade their standalone AP and FM to newer versions (ap_104.0 and FM_9.13.x or later).

Use the following tables to learn which script(s) should be applied in your system:

	ZD 9.9/9.10.0/9.10.1/9.12.0/9.12.1 or earlier version	ZD_9.10.2/9.12.2/9.12.3	ZD 9.13.X or later version
FM 9.9/9.10.0/9.10.1/9.12.0 /9.12.1 or earlier version	Apply both FM and ZD Scripts	Not applicable ¹	
FM 9.10.2 or FM 9.12.2	Apply both FM and ZD Scripts	Apply FM Script	Not applicable ¹
FM 9.13.x or later version	Apply ZD Script	Certificates are new on ZD and F action is needed.	M already, no

Table 1. ZDs managed by FM

Table 2. Standalone APs managed by FM

AP 9.8.x or earlier version	AP 9.8.x or earlier version AP_100.0 AP_100.1 AP_100.2		AP_104.0	
Use either FM Web UI, change AP-FM	AP WebUI/CLI, c connection fror	or Standalone A n HTTPS to HTT	AP Script to FP	AP certificates are new already. FM must be upgraded to FM_9.13.x or later, or use either FM Web UI, AP WebUI/CLI, or Standalone AP Script to change AP-FM connection from HTTPS to HTTP

¹ FM doesn't officially support ZD running higher versions than FM version.

3. Applying FM Script on FM

File name: fmNewCert.tar

MD5: 8B5ED9019AF9B0DA5FC04030DBE6112B

Following is an example:

- a) Upload FM script to the FM server and copy it to the FM folder (by default it is /opt/FM)
- b) Extract ("un-tar") FM script:

[root@localhost FM]# cd /opt/FM/ [root@localhost FM]# tar -vxf fmNewCert.tar upgradeKeystore.sh .keystore.20160201

c) Apply FM Script:

[root@wifiFM FM]# pwd /opt/FM [root@wifiFM FM]# ./upgradeKeystore.sh /opt/FM

Restarting FM...

shutdown_pid=14819 Shutting down Tomcat server...

Using CATALINA_BASE: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42 Using CATALINA_HOME: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42 Using CATALINA_TMPDIR: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/temp Using JRE_HOME: /opt/FM/3rdparty/jre/jre1.6.0_45 Using CLASSPATH: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/bootstrap.jar:/opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/tomcatjuli.jar Going to kill FM process. Done. Going to kill FM process. killing HttpShellProxy process pid=13026 Done. Going to kill Snmpagent process. killing Snmpagent process pid=13050 Done. Warning: Using a password on the command line interface can be insecure. Current path = /opt/FM/support_files waiting...test -e /opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5x86_64/data/wifiFM.pid file check=not

Linux version [x86_64]

JAVA_OPTS=-server -Xms2187m -Xmn1914m -Xmx5104m -XX:PermSize=256m -XX:MaxPermSize=256m -XX:+HeapDumpOnOutOfMemoryError -XX:-UseGCOverheadLimit -Djava.awt.headless=true -Xss2m startup_pid=14941 Starting MySQL server.

170217 07:41:40 mysqld_safe Logging to '/opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5-x86_64/data/wifiFM.err'. 170217 07:41:40 mysqld_safe Starting mysqld daemon with databases from /opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5-x86_64/data Detecting MySQL status... MySQL start successfully! Starting ActiveMQ.

nohup: appending output to `nohup.out' Starting Tomcat server.

Using CATALINA_BASE: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42 Using CATALINA_HOME: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42 Using CATALINA_TMPDIR: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/temp Using JRE_HOME: /opt/FM/3rdparty/jre/jre1.6.0_45 Using CLASSPATH: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/bootstrap.jar:/opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/bootstrap.jar:/opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/bootstrap.jar:/opt/FM/3rdparty/tomcat/apache-tomcat-9 Using CATALINA_BASE: /opt/FM/3rdparty/tomcat/httpshellproxy Using CATALINA_HOME: /opt/FM/3rdparty/tomcat/httpshellproxy Using CATALINA_TMPDIR: /opt/FM/3rdparty/tomcat/httpshellproxy/temp Using JRE_HOME: /opt/FM/3rdparty/jre/jre1.6.0_45 Starting snmpagent at port 161.

SNMP agent starts up successfully.

[root@wifiFM FM]#

d) Verify FM certificate status

Open a web browser and login to FM via HTTPS, and verify the validity period of the certificates; it should be valid through Aug 1st (or Aug 2nd, depending on your time zone), 2040.

For example, on a Firefox browser, click the browser's **certificate icon** as follows, and then navigate to **Security** tab and then click **View Certificate** to confirm the expiration date.

https://www.ruckuswireless.com	C I
On a Chrome browser, click the Customerize and control Google Chrome icon a shown below, and select More Tools . Then select Developer tools . Show the Security tab (you may need to click the >> icon to have the tab shown). And then select View certificate to verify the expiration date of the certificate.	IS
← → X A Not secure bttps://172.18.131.5/intune/dashboard.admin.do	. v
On an Internet Explorer browser or a Safari browser, click the certificate icon at the end of the URL bar to confirm:	9
Apple Yabool Google Maps YouTube Wikipedia News (129) * Popular *	0
Type Tanto, occite maps Totrace (Tropeda Terrs(12)) Topada	
General Details Certification Path Image: Certificate Information	
Issued to: Flexmaster	
Issued by: Flexmaster Actual Valid from 12/ 11/ 2015 to 8/ 1/ 2040	
Install Certificate Issuer Statement Learn more about certificates	

ОК

4. Applying ZD Script on all ZDs

File name: import-fmcacert_v10.tar.gz

MD5 checksum value (can be used to verify file integrity): 38BDE94A7F6AC472DF51F3A4CD22E76E

Following is an example:

- a) Import ZD script into ZD through ZD Web UI from Administrator->Diagnostics->Import scripts.
- b) Establish a SSH session to ZD CLI. Execute imported script:

ruckus> enable

ruckus# debug

You have all rights in this mode.

ruckus(debug)# script

ruckus(script)# list

Index Scripts 1 import-fmcacert.sh ruckus(script)# exec import-fmcacert.sh Import new FM CA successfully. Restart tr069d. ruckus(script)#

Note 1: If the ZD device is ZD1100, it may display the following warning when the script is applied. This is an expected result, and you can ignore it.

ruckus(script)# exec import-fmcacert.sh sed: /file_list.txt: No such file or directory Import new FM CA successfully. Restart tr069d.

Note 2: Once the FM CA certificate is imported, it will be preserved even if ZD is rebooted or set to factory default. But if ZD is upgraded to a version that doesn't have a new CA certificate, this script must be executed again. ZD 9.10.2/9.12.2/9.12.3/9.13 and later versions have the new FM CA certificate.

5. Changing AP and FM Connection to be HTTP

We recommend that customers upgrade their Standalone AP and FM to the latest version (104.0 and 9.13.x or later) to avoid the FM certificate expiration issue after March 26, 2017.

However, for customers who do not plan to upgrade their Standalone APs, you can change the FM server URL to HTTP to bypass the issue.

Note: Customers who need to use HTTPS, must upgrade their Standalone AP to version 104.0 and FM to version 9.13.x or later.

Before FM Certificate Expiration 5.1.

If the FM certificate has not expired, and if the standalone AP can still connect to FM, you can follow the example to change FM server URL to HTTP through the FM template or FM Web UI.

Option 1: Use FM template:

Steps:

- 1. Login to FM using the root account
- 2. Go to Configure -> Standalone APs -> Config Templates
- 3. Click Create a template

Ruckus	Ruckus FlexMaster										
	Dashboard In	ventory Monitor Con	figure Reports Admi	nister							
Standalone APs	Config Template	5									
Config Templates						-0-					
Config Tasks	Template Nar	ne Created by	Created	Supported Models	Actions						
Factory Reset	K-R300	admin@ruckus.com	May. 13 2016 14:48:22	R300	View Edit Delete Copy Export						
ZoneDirectors	7363auto	admin@ruckus.com	May. 13 2016 14:47:39	ZF7363	View Edit Delete Copy Export						
Config Templates	test	admin@ruckus.com	May. 13 2016 14:40:02	ZF2741	View Edit Delete Copy Export						
Config Tasks											
Config Backup											
Event Configuration	Number of ten	nplates: 3			G 1						
Common	📩 🧙 <u>Create a ten</u>	nplate			0.						
Firmware Status		-									

4. Type a name, and choose "Management Server Configuration Setting"

nplate Name FM UR	L	
duct Type: ZF2741		
Select product type	Ruckus ZF2741 Device	•
Select the configurati	Ruckus VF2825 Device (ruckus01) Ruckus VF2825 Device (ruckus03) Ruckus VF2825 Device (ruckus04)	•
Device G	Ruckus VF7811 Device Ruckus R300 Device	
Internet	Ruckus R700 Device	
Local Sub	Ruckus R500 Device Ruckus T300 Device	
Local Sub	Ruckus T301N Device Ruckus R600 Device	
Local Sub	Ruckus T301S Device	
Local Sub	Ruckus T300E Device Ruckus H500 Device	_
Wireless	Ruckus P300 Device Ruckus R710 Device	
Wireless	Ruckus R310 Device	
Wireless :	Ruckus T710 Device Ruckus T710s Device	
Wireless 2	Ruckus R510 Device	

5. Check "Device Registration Settings" then click Next

Template Name	FM U	a.	
Product Type: ZF2925,ZF2942,VF S,ZF7762-T,ZF776 AC,ZF7321-U,ZF70 E,ZF7441,R300,R7	2825, 2-AC,Z 55,ZF7 00,R50	/F7811,ZF7942,VF2811,ZF2741,ZF7962,ZF7762,ZF7731,ZF7341,ZF734 F7762-S-AC,ZF7761CM,ZF7341,ZF7782,ZF7782-S,ZF7782-N,ZF7782-E, '781FN,ZF7781FN-E,ZF7781FN-S,ZF7781CM,ZF7781CM-E,ZF7781CM-3, 0,7300,T301N,R600,T301S,T300E,H500,P300,R710,R310,T710,T710S,	13,ZF7363,ZF7025,ZF7321,ZF7982,ZF7 ZF7372,ZF7352,SC8800-S,SC8800-S- ZF7351,ZF7372- R510
Select product	type	Management Server Configuration Settings *	
Select the conf	figurat	ion options that you want to modify:	
	Devic	e Registration Settings	
			Back Next C

6. In parameter detail page, choose "Server URL" and configure it to use HTTP. Note the full URL needs to be used.

Parameter	Value
Server URL:	http://172.18.131.2/intune/server
Server Registration User N	ame
Server Registration Passwo	rd:
Periodic Inform Interval:	15 Minutes T
) Remote Management Mode	E: FlexMaster ▼ Warning: Once SNMP is enabled, the CPE will no longer be managed by FlexMaster.

7. Click Next and then Save

Configuration Parameters a	nd Values er a factory reset	
Parameter Name	Parameter Value	Validation
Server URL:	http://172.18.131.2/intune/server	
		× 1
		Back Save Cance

8. Go to Standalone APs -> Config Tasks -> Create a task to configure the APs. Select appropriate devices.

Standalone APs Config Tasks actory Reset ID Task Name Schedule Number of tasks: 0 Immware Upgrade REATE A TASK Select Lask Settings Specify a task name: Select the devices to be provisioned Select View Select View Select View Select Devices Advanced Settings Select View of devices to perform configuration update: All Standalone APs Select View Select View Select View Select Devices Advanced Settings Select View of devices to perform configuration update: All Standalone APs View Details Select View Select Niew of devices to perform configuration update: Select View Select View Select Settings Select View Select Niew of devices to perform configuration update: III Select View Select View Select Devices Advanced Settings Select View of devices to perform configuration update: IIII <t< th=""><th>Config Tasks onfig Tasks Select View Selet</th><th></th><th></th><th>Dashboard</th><th>Inv</th><th>entory</th><th>Monitor</th><th>r Configure</th><th>R</th><th></th><th></th><th></th><th></th></t<>	Config Tasks onfig Tasks Select View Selet			Dashboard	Inv	entory	Monitor	r Configure	R				
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ID Task Name Schedule oneDirectors Number of tasks: 0 ID ID immore Status ID ID ID immore Status ID ID ID ID immore Status ID ID ID ID ID immore Status ID ID ID ID ID ID REATE A TASK ID	ID Task Name Schedule ID Task Name	onfig Tem	plates										
ID Task Name Schedule oneDirectors ID onfig templates onfig tasks onfig tasks onfig tasks onfig tasks onfig tasks onmon Number of tasks: 0 imware Status imware Upgrade REATE A TASK Task Settings Specify a task name: Select a configuration template: IPUL (ZF2925,ZF2942,VF2825,VF7811,ZF7942,VF2811,ZF2741,ZF7962,ZF7762,ZF7731,ZF7341,ZF7343,ZF7363,ZF7025,ZF7321 View Parameters Select the devices to be provisioned Select View Select Devices Advanced Settings Select view of devices to perform configuration update: All Standalone APs View Details Select a view of devices to perform configuration update: All Standalone APs View Details Select a view of devices to perform configuration update: All Standalone APs View Details Select a view of devices to perform configuration update: Address IP Address Keternal IP Model Connection Connection Upine Software Software RuckusAP 30100300244 AC:67:06:1E:45:30 192.168.0.100:443 172.18.131.8:443 ZF7962 ZOOId 3h Select 0:200 3h Sele	ID Task Name Schedule Vent Configuration Number of tasks: 0 Number of tasks: 0 IP ID Create a task Select a configuration template: FM URL (ZF2925,ZF2942,VF2825,VF7811,ZF7942,VF2811,ZF7942,ZF7762,ZF7762,ZF7731,ZF7341,ZF7343,ZF7363,ZF7025,ZF7321,ZV9822,ZF7363,ZF7025,ZF7321,ZV98225,ZF7342,VF2825,VF7811,ZF7942,VF2811,ZF7942,VF2811,ZF7942,ZF7762,ZF7762,ZF7731,ZF7341,ZF7343,ZF7363,ZF7025,ZF7321,ZV9822,ZF7363,ZF7025,ZF7321,ZV9822,ZF7363,ZF7025,ZF7321,ZV9822,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7321,ZV9822,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7321,ZV9822,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF7341,ZF7343,ZF7363,ZF7025,ZF734	onfig Task	5										
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Option 2: Use FM AP Device View

Steps:

- 1. Login to FM and go to Inventory --> Standalone, click the Serial Number of the Standalone AP to pop up the Standalone AP Device View.
- 2. Go to Standalone AP Device View --> Detail → Device, click **Edit Setting** and change the Server URL to use HTTP.

	Ruckus ^a FlexMaster								
	Summary Details Diagnostics								
Device	Device								
Internet/WAN									
Local Subnets	Device Name: 7982								
Radio 2.4G	Periodic Inform								
Radio 5G	Interval:								
Rate Limiting	Server URL: http://172.18.56.14/intune/server								
Associated Devices	Login Name:								
Device Events	Service Provider								
Ethernet Ports	Service Provider								
802.1x	Password ••••••								
Management	I ED Control:								
Hotspot	TACACS+ State:								
Find Another Device	Back Submit Reset								

5.2. After FM Certificate Expiration

If the FM certificate has expired and the Standalone AP is disconnect from FM, we recommend that customers use Standalone AP Web UI, AP CLI, or Standalone AP Script to change the FM server URL to HTTP.

Option 1: Change on Standalone AP Web UI

Login to the Standalone AP Web UI and change FM server URL to use HTTP:

Device Internet	TR069 / SNMP Management Choice —	
Local Subnets Radio 2.4G Radio 5G Ethernet Ports Hotspot	 Auto (SNMP and TR069 will work together.) SNMP only FlexMaster only None 	
Maintenance Upgrade Reboot / Reset Support Info	DHCP Discovery: FlexMaster Server URL: Digest-authentication Username: Digest-authentication Password: Periodic FlexMaster Inform Interval:	https://flexmaster/intune/server http://172.18.56.14/intune/server 712b4265b294772f31344f2e6 10663476AAC793836579BD8 1 minute
Administration Management Diagnostics Log	TR069 Status Currently Using URL: https://17 Last Attempted Contact: 2016-07-18 Last Successful Contact: 2016-07-18 Last Contact Result: Successful Current Time: Mon Jul 18	2.18.56.14/intune/server 03:31:12 GMT using https://172.18.56.14/intune/server 03:31:12 GMT using https://172.18.56.14/intune/server 8 03:32:00 2016 (UTC)

Option 2: Change on Standalone AP CLI:

Use the following command (SSH (or Telnet) to Standalone AP CLI) and change the TR069 URL to HTTP:

rkscli: set tr069 url http://10.11.158.8/intune/server

Option 3: Apply Standalone AP Script on FM:

<u>File name:</u> changeTr069Protocol.sh <u>MD5:</u> AC3BD3009B857946B11B6501A868C1DC <u>File name:</u> SwitchAPTr069Protocol.sh <u>MD5:</u> 380D0C03899BDCE1A1EF99A9CA682B80

Caveats and Limitations on Standalone AP Script:

Before following the script to apply AP Script, be aware of the following:

- If APs are located within a NAT/Firewall, the scripts may not be able to reach them from the FM server to make it work.
- This script depends on the script tool '**expect**' package. Before running the script make sure 'expect' is installed on the system. To install 'expect' you can execute the command 'yum install expect'.
- In case the FM is freshly installed, or Standalone AP View is newly created, wait for 20 minutes to make sure the system completely synchronizes with the DataBase, and then execute the script.

Steps:

- 1. Download the two Standalone AP script files on the FM server.
- Copy the script files to \$FM_HOME/support_files/ and make them executable (chmod to 770).

For example, if FM is installed in /opt/FM/, copy the script files in /opt/FM/support_files/

[root@localhost support_files]# chmod 770 SwitchAPTr069Protocol.sh [root@localhost support_files]# chmod 770 changeTr069Protocol.sh

3. Change the directory to \$FM_HOME/support_files/,

issue command: /SwitchAPTr069Protocol.sh \$FM_HOME '\$mysql_username' '\$mysql_password';

select view_id which will be after this step and input the new HTTP TR069 url to run the scripts.

For example: ./SwitchAPTr069Protocol.sh /opt/FM 'root' 'admin!234'

```
root@localhost FlexMaster]# cd support_files/
 [root@localhost support files]# pwd
 /FlexMaster/support_files
[root@localhost support_files]# ./SwitchAPTr069Protocol.sh /FlexMaster 'root' 'admin!234'
fetch all SOLO AP views
Warning: Using a password on the command line interface can be insecure.
view_id, view_name
1, All Standalone APs
4, Bali
Please enter the view_id.
view_id:4
Please enter the intune server url.
url:http://10.11.158.8/intune/server
fetch the devices in the view: 4
Warning: Using a password on the command line interface can be insecure.
I, RuckusWB, 10.11.158.26, 74:91:1A:10:DB:00, super, sp-admin
spawn ssh -1 super 10.11.158.26
Please login: super
password :
Copyright(C) 2005-2010 Ruckus Wireless, Inc. All Rights Reserved.
rkscli: set tr069 url http://10.11.158.8/intune/server
2, RuckusWB, 10.11.158.27, 74:91:1A:10:DA:F0, kenneth, admin!234
spawn ssh -1 kenneth 10.11.158.27
Please login: kenneth
password :
Copyright(C) 2005-2010 Ruckus Wireless, Inc. All Rights Reserved.
rkscli: set tr069 url http://10.11.158.8/intune/server
[root@localhost support files]#
```

4. Check the logs (Success/Failed) in \$FM_HOME/switchSoloAP/

```
[root@localhost Support_files]# cd ..
[root@localhost FlexMaster]# 1s
3rdparty conf fmscript.log README.txt restore.sh snmpagent.log support files uninstall.sh webapps
backup.sh fm_db_rep.sh install.log restart.sh shutdown.sh startup.sh sourcembedical upgrade.sh zdbackup
[root@localhost FlexMaster]# cd switchSoloAP/
[root@localhost switchSoloAP]# 1s
failed_20170228142538.log success_20170228142538.log
[root@localhost switchSoloAP]# cat failed_20170228142538.log
device name, IP, MAC, error
[root@localhost switchSoloAP]# cat success_20170228142538.log
device name, IP, MAC
RuckusWB, 10.11.158.26, 74:91:1A:10:DB:00
RuckusWB, 10.11.158.27, 74:91:1A:10:DA:F0
[root@localhost switchSoloAP]#
```

6.Appendix: Rolling Back Installed Certificates on FM and ZD

In a rare case that the user needs to roll back installed certificates, this section provides the instructions.

Warning: after executing the following instructions the system will be with the old certificates that expires on March 26, 2017.

6.1. Rolling Back the Certificate on FM

While applying the renewed FM certificate script, the original script is automatically backed-up.:

Backup folder: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.25/conf/ Backup File name: .keystore.2006.{timestamp}.bak

[root@localhost FM]# cd /opt/FM/

[root@wifiFM FM]# cd ./3rdparty/tomcat/apache-tomcat-7.0.42/conf/ [root@wifiFM conf]# Is -Itra total 232 -rw-----. 1 root root 162905 Jul 2 2013 web.xml -rw-----. 1 root root 5946 Jul 2 2013 catalina.properties -rw-----. 1 root root 11893 Jul 2 2013 catalina.policy drwxr-xr-x. 9 root root 4096 Feb 17 13:56 ... -rw-----. 1 root root 6435 Feb 17 13:56 server.xml.org -rw-----. 1 root root 2876 Feb 17 13:56 logging.properties -rw-----, 1 root root 1394 Feb 17 13:56 context.xml -rw-----. 1 root root 197 Feb 17 13:56 tomcat-users.xml drwxr-xr-x. 3 root root 4096 Feb 17 14:00 Catalina -rw-----. 1 root root 6840 Feb 17 14:31 server.xml -r--r--. 1 root root 2413 Feb 17 15:41 .keystore.20160201 drwxr-xr-x. 3 root root 4096 Feb 17 15:41. -r--r--. 1 root root 4029 Feb 17 15:41 .keystore.2006.20170217154131.bak -r--r--. 1 root root 2413 Feb 17 15:41 .keystore [root@wifiFM conf]# pwd /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/conf [root@wifiFM conf]# cp .keystore.2006.20170217154131.bak .keystore cp: overwrite `.keystore'? y

[root@wifiFM conf]# cd /opt/FM/ [root@wifiFM FM]# ./restart.sh

Restarting FM...

shutdown_pid=16308 Shutting down Tomcat server...

Using CATALINA_BASE: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42

Using CATALINA_HOME: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42

Using CATALINA_TMPDIR: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/temp

Using JRE_HOME: /opt/FM/3rdparty/jre/jre1.6.0_45

Using CLASSPATH: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/bootstrap.jar:/opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/tomcat-juli.jar

Going to kill FM process.

Done.

Going to kill FM process.

killing HttpShellProxy process pid=15711

Done.

Going to kill Snmpagent process.

killing Snmpagent process pid=15738

Done.

Warning: Using a password on the command line interface can be insecure.

170217 07:52:10 mysqld_safe mysqld from pid file /opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5-x86_64/data/wifiFM.pid ended

Current path = /opt/FM/support_files

waiting...test -e /opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5-x86_64/data/wifiFM.pid

file check=not

Linux version [x86_64]

JAVA_OPTS=-server -Xms2187m -Xmn1914m -Xmx5105m -XX:PermSize=256m -XX:MaxPermSize=256m -XX:+HeapDumpOnOutOfMemoryError -XX:-UseGCOverheadLimit -Djava.awt.headless=true -Xss2m

startup_pid=16434

Starting MySQL server.

170217 07:52:13 mysqld_safe Logging to '/opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5-x86_64/data/wifiFM.err'.

170217 07:52:13 mysqld_safe Starting mysqld daemon with databases from /opt/FM/3rdparty/mysql/mysql-advanced-5.6.13-linux-glibc2.5-x86_64/data

Detecting MySQL status...

MySQL start successfully!

Starting ActiveMQ.

nohup: appending output to `nohup.out' Starting Tomcat server.

Using CATALINA_BASE: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42 Using CATALINA_HOME: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42 Using CATALINA_TMPDIR: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/temp Using JRE_HOME: /opt/FM/3rdparty/jre/jre1.6.0_45 Using CLASSPATH: /opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/bootstrap.jar:/opt/FM/3rdparty/tomcat/apache-tomcat-7.0.42/bin/tomcat-juli.jar Using CATALINA_BASE: /opt/FM/3rdparty/tomcat/httpshellproxy Using CATALINA_HOME: /opt/FM/3rdparty/tomcat/httpshellproxy Using CATALINA_TMPDIR: /opt/FM/3rdparty/tomcat/httpshellproxy/temp Using JRE_HOME: /opt/FM/3rdparty/jre/jre1.6.0_45 Starting snmpagent at port 161.

SNMP agent starts up successfully.

[root@wifiFM FM]#

6.2. Rolling Back the Trusted CA Certificate on ZD

When you execute the script to upgrade the CA cert, the original CA certificate is automatically backed-up. To roll back to the original CA cert, execute the same script on ZD CLI as follows:

ruckus> enable

ruckus# debug

You have all rights in this mode.

ruckus(debug)# script

ruckus(script)# list

IndexScripts1import-fmcacert.shruckus(script)#exec import-fmcacert.sh recoveryRecover successfully.Restart tr069d.ruckus(script)#

[End of Document]