



# IAM

## IAM 12.0.42 New Version Release Document

**Version 12.0.42**



## Change Log

Date	Change Description
April 29, 2020	Version 12.0.42 document release.

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## Chapter 1 What is New

1. Add 29 new hardware patches of C3000/Apollolake.
2. Enhance product safety specifications.
3. Disable Firmware Updater port by default
4. Upgrade RSA key. Add key size option (4096-bit) and key algorithm type (SHA1/SHA256/ECDSA).
5. Update OpenSSL to a stable version.
6. Support LDAPS to carry out third-party authentication correlation with AD domain
7. Support LDAPS for VPN.
8. Improve product usability.
9. Integrate CSSP security requirements (cross-department).
10. Integrate GCS upgrade of new version.
11. Optimize health tool. Support qualification inspection and optimize prompt for CPU, memory, disk space, and network connectivity.

## Chapter 2 Resolved Issues

1. Solve 13 online issues

## Chapter 3 Upgrade Instruction

### 3.1 Confirmation before upgrade

1. Whether the software upgrade license is within the validity period
2. Check whether the current version meets the upgrade conditions.

Support upgrade to IAM12.0.42 version from the following versions, with the update package (IAM12.0.40(20191012).ssu): IAM11.0 official version, IAM11.0R2 beta version, IAM11.0R2 official version, IAM11.2 beta version, IAM11.2 official version, IAM11.2R1 beta version, IAM11.2R1 official version, IAM11.6 beta version, IAM11.6 official version, IAM11.9 beta version, IAM11.9 official version, IAM12.0.7 official version, IAM12.0.8 beta version, IAM12.0.8 official version, IAM12.0.12 beta version, IAM12.0.12 official version, IAM12.0.13 beta version, IAM12.0.13 official version, IAM12.0.14 beta version, IAM12.0.14 official version, IAM12.0.17 beta version and IAM12.0.17 official version, IAM12.0.18 beta version, IAM12.0.18 official version, IAM12.0.23 beta version, IAM12.0.23 official version, IAM12.0.25 beta version, IAM12.0.25 official version, IAM12.0.26 beta version, IAM12.0.26 official version, IAM12.0.27 beta version, IAM12.0.27 official version, IAM12.0.40 beta version, IAM12.0.40 official, IAM12.0.41 beta version. IAM12.0.41 official version.

3. For External Report Center:

Separated BI update package (BusinessIntelligenceSetup\_3.0.12\_BI(20191010)\_eng.zip) for English Version is able to be installed on:

DC11.0 official version

DC11.0R2 official version

DC11.8 official version

DC11.9R1 official version

DC12.0 official version

DC12.0.2 beta version

DC12.0.3 official version  
 DC12.0.5 official version  
 DC12.0.6 beta version  
 DC12.0.6 official version  
 DC12.0.7 beta version  
 DC12.0.7 official version  
 BI3.0.1 12.0.8 beta version  
 BI3.0.1 12.0.8 official version  
 BI3.0.2 12.0.13 beta version  
 BI3.0.2 12.0.13 official version  
 BI3.0.3 12.0.16 beta version  
 BI3.0.4 12.0.17 official version  
 BI3.0.5 12.0.22 beta version  
 BI3.0.5 12.0.22 official version  
 BI3.0.6 12.0.23 beta version  
 BI3.0.6 12.0.23 official version  
 BI3.0.7 12.0.26 beta version  
 BI3.0.7 12.0.26 official version  
 BI3.0.8 12.0.27 beta version  
 BI3.0.8 12.0.27 official version  
 BI3.0.12 12.0.40 beta version

## 3.2 Upgrade Limitations

Limitations	Solutions	Impacts on Functions After Upgrade
It is not supported to upgrade the IAM unit which is deployed in Bridge mode and has HA mode enabled with active-standby mode.	Disable HA mode.	For new version of IAM unit deployed in Bridge mode, HA active-standby mode is not supported.
Upgrade is not supported when Wireless access control license is activated.	Log in to the back end of IAM device and execute a command and then perform upgrade again.	The new version does not support wireless access control.
Upgrade cannot be performed on customized version.	Contact Sangfor developer for migration.	None
Upgrade is not supported if there are mobile VPN users configured.	Simply delete the related mobile VPN user configuration.	After upgrade of VPN module, mobile VPN users cannot get connected.
Upgrade is not supported if there is virtual IP address pool configured for mobile VPN users.	Simply delete the related mobile VPN user configuration.	After upgrade of VPN module, mobile VPN users cannot get connected.

If VPN is not configured multiple line policy, upgrade is not allowed if there is IPSec VPN connection established via Line 2.	Enable multiple line policy and perform upgrade again.	None
Upgrade is not allowed if antivirus is enabled.	Force upgrade after tagging it at the backstage.	None
VPN configurations have default user enabled and apply local authentication.	Simply delete the related mobile VPN user configuration.	None
For devices that have been in use for more than 5 years, upgrading to newly released versions is no longer allowed. Specifically: License activation time is used as start time of using device. End time is generated according to release date of update package. If the period between start time and end time is longer than 66 months (5.5 years), upgrade to the current package is not allowed.	Upgrade is not allowed.	Upgrade is not allowed.
For IAM unit deployed in Route mode, if WAN interface has port 9998 enabled, upgrade to IAM 12.0.27 is not allowed.	If that port is not open any more, upgrade is allowed then.	The 9998 port for device correlation is used for internal programming only.
After upgrade to IAM 12.0.42, port 51111 is disabled by default, and SANGFOR Firmware Updater cannot connect to device for upgrade.	Log in to console and enable Firmware Updater.	Port 51111 is disabled by default.

### 3.3 Upgrade Recommendations

1. Device will restart automatically upon upgrade completion.
2. As device will restart automatically upon upgrade completion, network will get interrupted if it is connected to customer's network.
3. Do not reboot device manually nor cut off power during upgrade.
4. Upgrade process may take about 20-30 minutes.
5. During upgrade process, network connection will be interrupted for 3 to 5 minutes.

## 3.4 Upgrade Procedure

Before upgrade, do the following:

1. Obtain the update package of this version from  
<http://community.sangfor.com/plugin.php?id=service:download&action=view&fid=9#/6/all>
2. Launch Sangfor Firmware Updater 6.0, connect it to IAM unit, and load that update package to start upgrade.

The upgrade procedure for other means of upgrade is similar to that for IAM12.0.27 official version.

For more guidance, please refer to:

[http://community.sangfor.com/plugin.php?id=sangfor\\_databases:index&mod=viewdatabase&tid=2054](http://community.sangfor.com/plugin.php?id=sangfor_databases:index&mod=viewdatabase&tid=2054)

3. The download path for BI is:

<http://community.sangfor.com/plugin.php?id=service:download&action=view&fid=9#/14/all>

4. BI deployment guide:

[http://community.sangfor.com/plugin.php?id=sangfor\\_databases:index&mod=viewdatabase&tid=831](http://community.sangfor.com/plugin.php?id=sangfor_databases:index&mod=viewdatabase&tid=831)

## 3.5 Handling of Upgrade Failure

Upgrade Failure	Prompt on Firmware Updater	Solution
High availability mode is not supported by the new version.	"MODE_BRIDGE and HA_CLU not support!"	1. Visit the web admin console, disable high availability and then perform upgrade again.
Wireless access control is enabled, which is not supported by the new version of IAM unit.	"wireless sn is valid, not allow to upgrade"	Please contact TAC team in this issue.
Devices with mobile VPN users configured are not supported to upgrade.	There are mobile users exist. Please delete the mobile users before trying again	Remove the mobile users before upgrade.
Devices with virtual IP pool available for mobile users are not supported to upgrade. Please remove them before upgrade.	There are virtual IP addresses for mobile users being assigned. Please remove them before trying again	Remove the virtual IP before upgrade.
Upgrade is not supported when multiline is not enabled but IPsec connection is established through line 2.	There are IPSEC connections based on line two on condition that the multiline feature is not enabled. Please enable the feature or change to the line one before upgrading.	Enable Multiline and add line 2 before upgrade.

## Chapter 4 Precaution

1. Internal database version will impact features but not upgrade. Please keep internal database up to date.
2. Central management: Support central management via Sangfor BBC; Not support central management via Sangfor CMC.
3. Support pass-through, turning on pass-through does not require the device to restart.
4. Support HA.
5. Authorization change: For IAM trial license, testing is performed on site after trial license is activated; for paid license, no additional operation is needed, because authorization is granted together with delivered hardware.
6. Downgrade is not supported.
7. For the Device has enabled with SSL Content decryption feature in the previous version require to **reinstall the root certificate** after upgrade to this version.



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