



Iris ID

iCAM7000 Series Software Upgrade Guide

For iCAM 7000 & 7100 Camera Units

Ver 1.00.00

January 23, 2012

1. Purpose

This document will provide information for upgrading the camera software of iCAM 7000 and iCAM 7100 model versions. The following procedures and processes are written for qualified IRIS ID partners and installers only as a general guide for upgradation of iCAM7000 Series software.

1.1. Note to Installers

Before beginning the upgrade process, make sure that you have received or downloaded the available *Option1 Admin* and *Option3 Admin* Software designed specifically for the purpose of upgrading or installing new software for your iCAM7000 series unit(s). Additionally, review the Minimum system requirements before attempting to perform any installation.

IMPORTANT: Do not turn off power or reset the iCAM during the upgrade process. Failure to follow the specified step process exactly may result in improper iCAM functionality and may void any available limited warranty applicable to the unit(s).

2. Upgrading & performing New Installation of iCAM7000 Series Software

The iCAM7000 Series camera units are capable of being upgraded to a newer version of iCAM software. Applications called “Option1 Admin” utility and “Option3 Admin” utility has been created to allow for new installation and upgrades of iCAM Software versions.

The “Option1 Admin” utility will upgrade your iCAM7000 Series camera unit(s) operational mode: Option 1 & option 2 iCAM7000 series software at the same time. The “Option3 Admin” Utility will upgrade the operational mode: option 3 of your iCAM. Regardless of whether you intend to use all of the operational modes, it is recommended to install/upgrade both of these iCAM software components.

This document provides step instructions for using both of these software utilities to upgrade your iCAM software and change the iCAM operational modes of use.

2.1. Minimum System Requirements

-Hardware:

- iCAM7000 Series camera unit (with iCAM software version 7.02.49 Option 1 or above).

-Software:

In addition to the system requirements for IrisAccess EAC (refer IrisAccess Software Installation Manual); the following pre-requisites are required to setup IrisAccess EAC with Option 3.

- Windows XP or Windows7 Operating system
- Microsoft .Net Framework 3.5 (not required on Windows 7)

3. Upgrading iCAM7000 Series

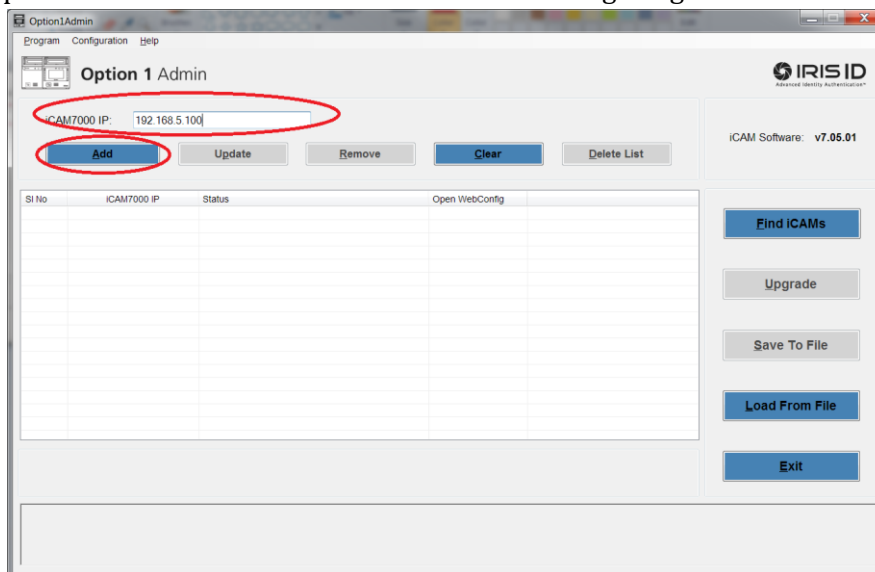
Make sure that Option1 Admin and Option3 Admin software utilities are available locally on the computer that will be performing the upgrades to the iCAM7000 Series unit(s). Additionally, verify that standard network communication has been established with the iCAM7000 Series unit(s).

3.1. Upgrade Procedure

Note: When performing installations of more than one iCAM at a time, each iCAM must have a different IP address to avoid the possibility of an IP conflict.

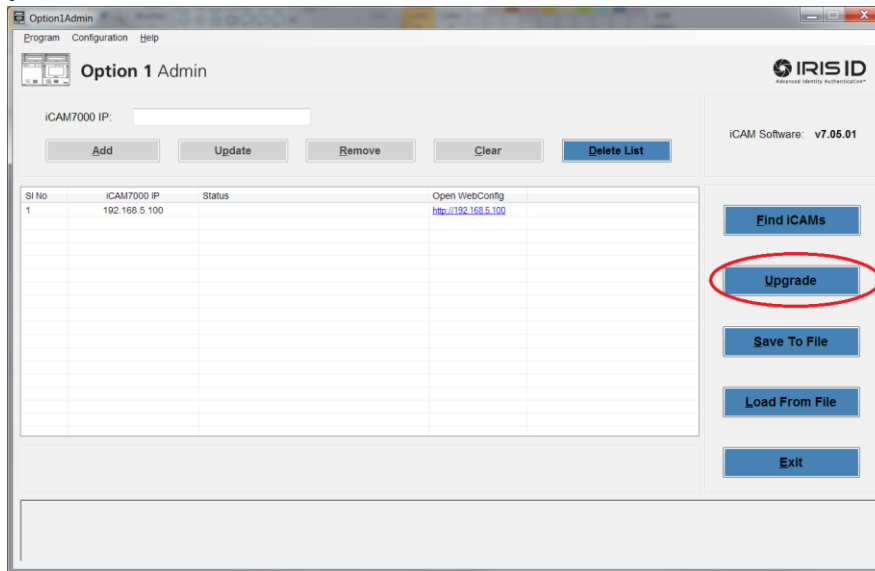
Option 1 Admin

1. Open the *Option 1 Admin* utility. To start the *Option 1 Admin*, click the iCAM7000_Option1_FullUpgrade_7.xx.xx.exe.
2. Enter the IP address of the iCAM that is to be upgraded in the “**iCAM7000 IP field**” and press the “**Add**” button as shown in the following image.

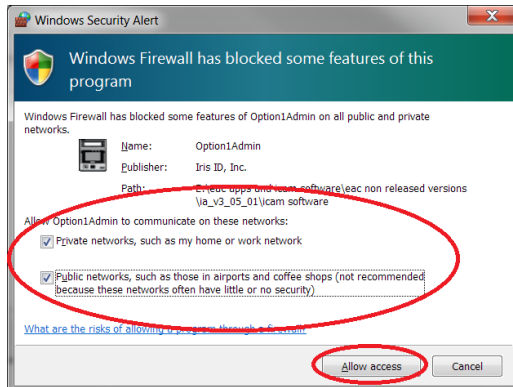


3. Repeat step 2 for any additional iCAM units that will be upgraded. (Up to 32 iCAM units can be upgraded at a time using this utility.)

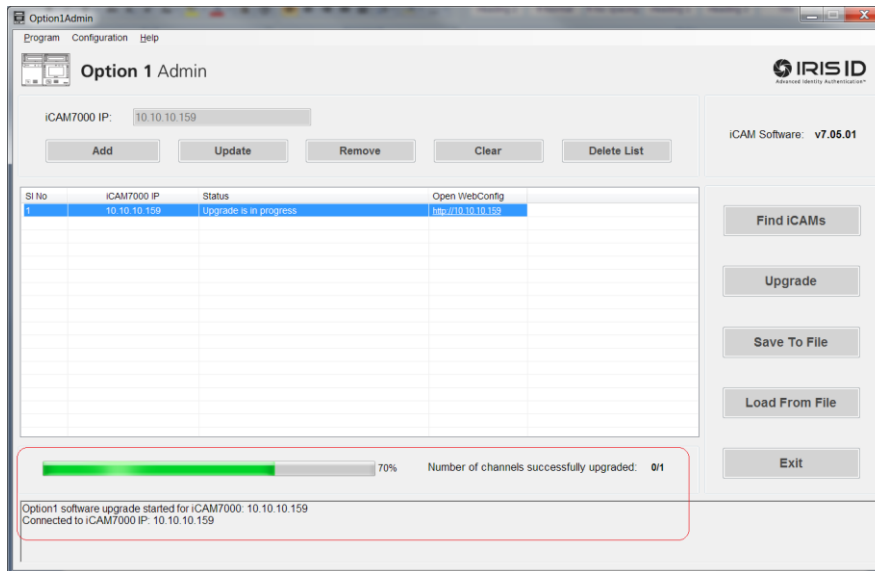
4. Press the **Upgrade** button to begin the upgrade process as shown in the following image. (DO NOT TURN OFF THE ICAM WHILE THE ICAM IS PERFORMING THIS PROCESS.)



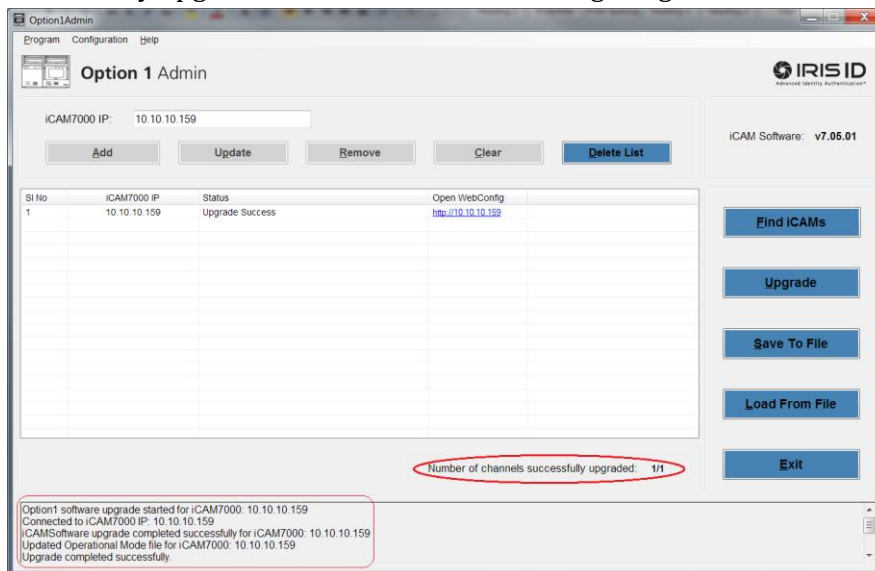
****Note:** If a Microsoft Windows Security Alert is displayed as shown in the following image, select both private and public networks checkboxes and press “Allow Access” for proper communication to the iCAM with this utility.*



5. The iCAM Upgrade utility will begin connecting to and upgrading the iCAM(s) as shown in the following image.



6. When completed, the Option 1 Admin Software will display a status of completion at the bottom of the screen as well as indicate the number of successful channels (iCAM7000 units) successfully upgraded as shown in the following image.

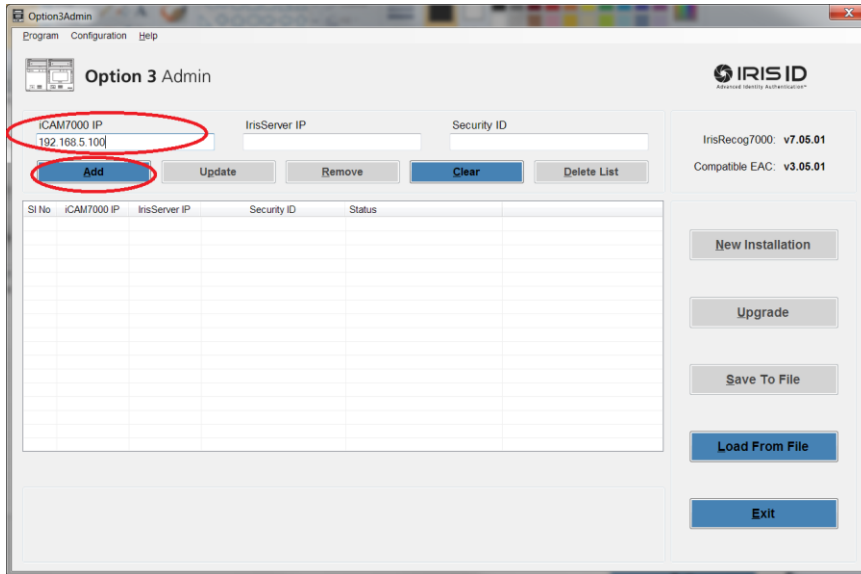


7. The iCAM7000 series unit(s) will reboot automatically after the successful upgrade. Allow the unit to reboot before attempting to use or continue with the iCAM Software upgrade.
8. Once the unit has rebooted, press the **Exit** button to close the application.

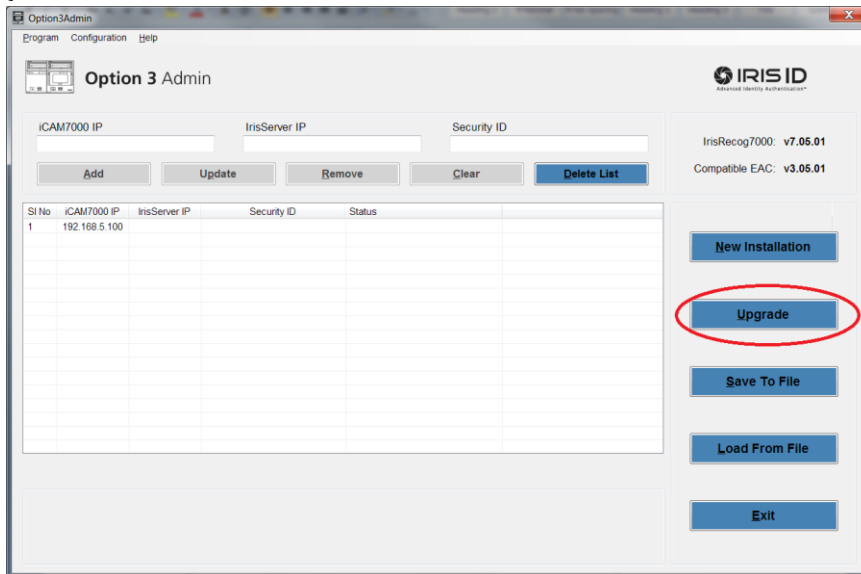
***Note:** If you are unable to upgrade the iCAM using the above process (with use of the Option 1 Admin utility), refer to the iCAM7000 Series user Guide for instruction on how to upgrade the iCAM Software through the iCAM Configuration utility and iCAM7000Software.dat file).

Option 3 Admin

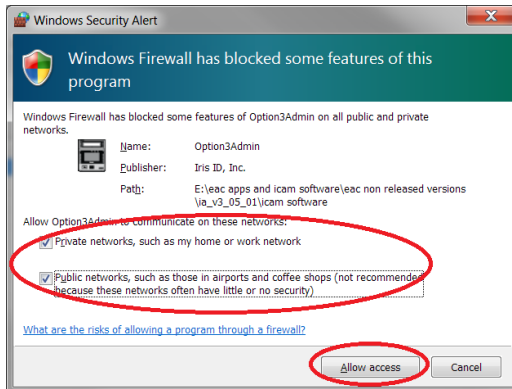
1. Open the *Option 3 Admin* utility. To start the *Option 3 Admin*, click the iCAM7000_Option3_FullUpgrade_7.xx.xx.exe.
2. Enter the IP address of the iCAM that is to be upgraded in the “**iCAM7000 IP field**” and press the **Add** button as shown in the following image. (Additional fields do not need to be filled in when performing an “*upgrade*”).



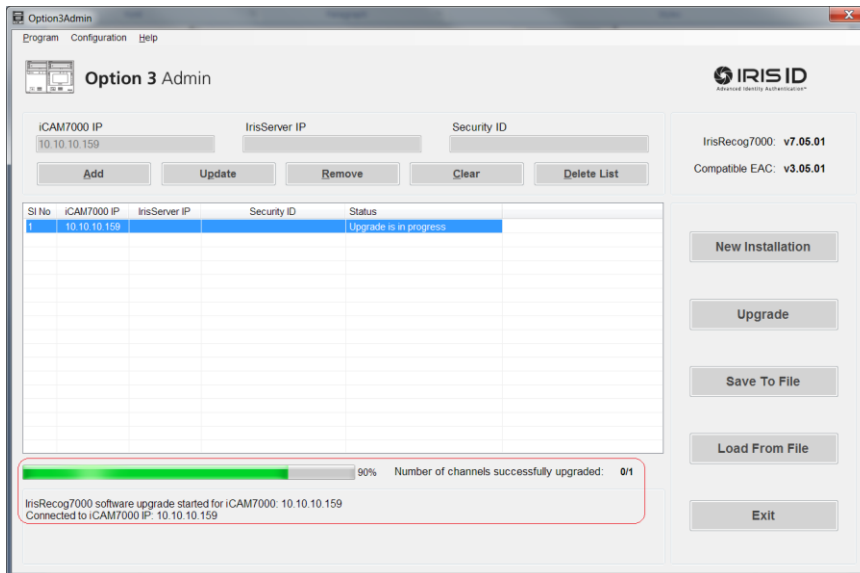
3. Repeat step 2 for any additional iCAM units that will be upgraded. (Up to 32 iCAM units can be upgraded at a time using this utility.)
4. Press the **Upgrade** button to begin the upgrade process as shown in the following image. (DO NOT TURN OFF THE ICAM WHILE THE ICAM IS PERFORMING THIS PROCESS.)



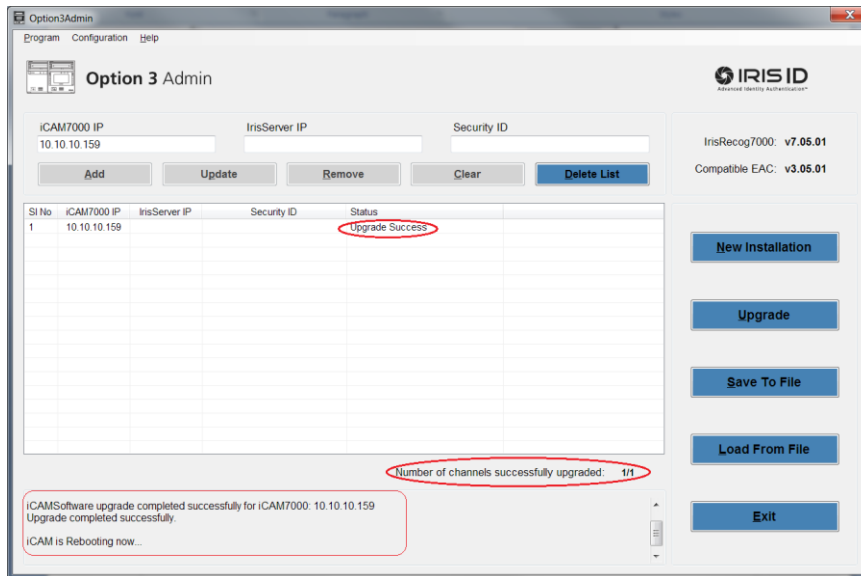
Note: If a Microsoft Windows Security Alert is displayed as shown in the following image, select both private and public networks checkboxes and press “Allow Access” for proper communication to the iCAM with this utility.



5. The iCAM Upgrade utility will begin connecting to and upgrading the iCAM(s) as shown in the following image.



6. When completed, the *Option 3 Admin* software will display a status of completion at the bottom of the screen as well as indicate the number of successful channels (iCAM7000 units) successfully upgraded as shown in the following image.



7. The iCAM7000 series unit(s) will reboot automatically after the successful upgrade. Allow the unit to reboot before attempting to use or continue with the iCAM Software upgrade.
8. Once the unit has rebooted, press the **Exit** button to close the application.

****Note:** If you are unable to upgrade the iCAM using the above process through Option 3 Admin, disable any firewalls that may be running on the computer or network and retry the process. If the issue persists attempt to perform a “New Installation” instead of an “upgrade”. Performing a New installation in this utility will require that ALL 3 available fields are filled in (iCAM7000 IP, IrisServer IP, and desired Security ID for this iCAM – only one security ID can be used per device on any system). Once the fields are filled, select the **New Installation** button.*

Selecting Operational Modes

After the iCAM Software upgrade has completed successfully the iCAM will reboot automatically. Allow the iCAM to complete the reboot process. Login to the iCAM(s) that were upgraded as described in the following steps:

1. Open the web browser and enter the iCAM IP address (for example - <http://192.168.5.100>) in the address bar then press **ENTER**. The iCAM login screen will appear.
2. Enter the default Username: **iCAM7000** and Password: **iris7000** (both are case sensitive)

iCAM Configuration

Administrator Login

Username:

Password:

Version 4.0.0.0 | Option 1

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**Note: The “Start Up Screen” is displayed by default. This screen can be disabled by un-selecting the check box for “Display initial start-up screen at login”. If the “Start Up Screen” does not appear, or to simply bypass the Start Up Screen” and enter the Main Menu, press the “Skip and go to Main Screen Button”.*

3. The iCAM Configuration Start Up Screen will appear as shown in the following image.

iCAM Configuration Start Up Screen

Network Settings

IP Address:

Subnet Mask:

Default Gateway:

☒ Enable IP announcement

Operational Mode

☒ Option 1: Networked iCAM Control / Iris Matching Mode [See Diagram](#)
 iCAM functions and iris matching controlled by networked software or devices. Supported by IrisAccess EAC software (IrisEnroll4000 or ICU4000), or with iData SDK software (ICAM4000 series compatibility).

☐ Option 2: Smart Card On-Device Verification Mode [See Diagram](#)
 The iCAM operates as a stand-alone device for verification (1:1) of iris templates on a smart card. For use with iData CMA and/or pre-existing smart cards with iris templates created by IrisAccess EAC or 3rd party applications.

☐ Option 3: On-Device iCAM Control and Iris Matching Mode [See Diagram](#)
 iCAM is controlled and iris matched inside the iCAM. Provides function of ICU within the iCAM. For use with IrisAccess EAC software only.

IrisServer IP:

Security ID:

Action on failure of DB Sync with IrisServer:
 ☒ Restore local DB in device to previous copy
 ☐ Put device into error state and disconnect from IrisServer (Device automatically reconnects to IrisServer and DB Sync is performed again)

☒ Display initial start-up screen at login

Version 4.0.0.0 | Option 1

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iCAM IP Address Settings:

4. Enter the desired IP address data of the iCAM7000 series camera unit (as needed).
 - IP Address – Enter IP address (For example: 192.168.5.100)
 - Subnet Mask – Enter Subnet address (For example: 255.255.255.0)
 - Default Gateway – Enter Gateway address (For example: 192.168.5.254)
5. A selection to enable or disable IP announcement will also be available (set by default as active - Recommended).

Selecting or Modifying the Operational mode for iCAM:

6. Select the desired Operational Mode settings for the iCAM found in this screen as needed. (See following data for details.)
 - **“Option 1: Networked iCAM Control / Iris Matching Mode”** – When option 1 is selected, the iCAM will operate as part of an IrisAccess™ Entry Access Control System, or for use with iData™ SDK (iCAM4000 Series compatibility). The iCAM functions and iris matching are controlled by networked software or devices.
IMPORTANT: If you are generally using option 3, this “option 1” mode may be needed to be used when performing enrollment.
 - **“Option 2: Smart Card On-Device Verification Mode”** - When option 2 is selected, the iCAM7000 operates as a stand-alone device for verification (1:1) of the iris templates on a smart card. This mode is generally for use with iData CMA and/or pre-existing smart cards with iris templates created by IrisAccess EAC or compatible 3rd party applications.
****Note: “iCAM7000 Stand-Alone Smart Card Verification Mode” can only be used when a card reader (internal or external) is used with the iCAM7000 series unit.***
 - **“Option 3: On Device iCAM Control and Iris Matching Mode”** – When option 3 is selected, the iCAM is controlled and iris matched inside the iCAM. This mode provides the function of an ICU within the iCAM. This option is designed for use with IrisAccess EAC software version 3.03.x and above.

****Note: If attempting to use an iCAM7000 series unit in operational mode “Option 3”, compatible IrisAccess EAC software version 3.03.x MUST be used for functionality of this option.***

IMPORTANT: If you are using an iCAM7000 in “Option 3” operational mode – when performing enrollments, and when trying to connect to the IrisEnrol4000 application within IrisAccess EAC software, the user must switch the operational mode to “option 1”. Once enrollments have completed, the iCAM can be set back to operational mode “option 3” (if a dedicated iCAM is not being used for enrollment).

In option 3 mode –the iCAM is controlled and iris matched inside the iCAM while providing function of an ICU within the iCAM. In order for these processes to work correctly the below information is required to be provided when “Option 3” is selected:

- a. **IrisServer IP** - Enter the Iris Server IP address
 - b. **Security ID** - Enter a unique security ID for this unit (16 character requirement).
 - c. **Action on Failure of DB Sync with IrisServer** - Select the radio button desired for Action on failure of DB Sync with IrisServer. These options are:
 - **Restore local DB in device to previous copy**
Or
 - **Put device into error state and disconnect from IrisServer (Device automatically reconnects to IrisServer and DB Sync is performed again).**
7. Display Initial Start-up screen at login – This checkbox can be selected to enable or unchecked to disable the initial start-up screen from appearing when the iCAM Configuration is logged into.
8. Once changes have been made to this screen, the iCAM will reboot for the changes to take effect. Allow the iCAM to complete the reboot process.

4. Technical Support

Additional Information and Technical assistance is available on the Iris ID System’s support web site at www.irisid.com, click on Support & Service then Technical Support.