

ICU Configuration Utility Guide

Installation and Usage Instruction

Purpose

The ICU Configuration Utility allows for configuration of an Identity Controller Unit (ICU) over a network based connection when the existing IP address of the ICU is known. This utility eliminates the requirement of using the Serial Configuration Cable for setting the IP address of the ICU and of the Iris Server IP (when current Iris Server IP is already known), and allows for the viewing of, and configurations to Security ID's.

This document is to be used as a reference when performing an installation of the ICU Configuration Utility as well as provide details regarding the ICU Configuration Utility software usage. As this document references only the ICU configuration utility and not the EAC software, instruction as well as implementation of a full system will not be found in this reference. To properly use this utility, general knowledge (such as the current ICU IP address, and password, and Server IP address) will be required. If this information is not known, the use of the ICU Serial Configuration Cable in conjunction with IrisICUAdmin software will be needed for use instead of this utility.

ICU4000 Series Factory Default Settings

If the ICU that will be used with this utility has been provided directly from the factory and no configuration setting changes or installations have been performed (or if the unit is brand new out of the box), please use the below information as reference for general ICU4000 Series Factory Default Settings. This information is useful for general knowledge and will be needed when using this utility.

- **ICU4000 Series Factory Default IP Scheme:**
 - IP Address = 192.168.5.200
 - Default Gateway = 192.168.5.254
 - Subnet Mask = 255.255.255.0
- **ICU4000 Series Factory Default Server IP Address:**
 - IP Address = 192.168.5.250
- **ICU4000 Series Factory Default Security ID's (4 channels enabled by default):**
 - Channel 1 = 200aaaaaaaaaaaa1
 - Channel 2 = 200aaaaaaaaaaaa2
 - Channel 3 = 200aaaaaaaaaaaa3
 - Channel 4 = 200aaaaaaaaaaaa4
- **ICU4000 Series Factory Default Password:**
 - Password = iris4000

Installation

1. Copy the file for "ICU_Configuration_UTILITY_v1.x to your PC

Note: This file contains two files: “*ICU_Configuration_Utility.exe*” and “*IPAddr*”. (these files must exist in the same file folder location). Additionally, it is recommended that the Windows User be logged in as, or have full administrative rights privileges, and that firewalls are not enabled, and ports are not being blocked on the PC during usage of the ICU software utility.

Recommendation: It is recommended that this utility is used on the Iris Server computer. However, if this is not possible, the IP address of the computer that is to be used *must* be set to the IP address of the Iris Server PC (as this is a requirement of the ICU Configuration Utility).

ICU Configuration Utility Execution

1. To execute (run) the ICU Configuration Utility, click the “*ICU_Configuration_Utility.exe*” on your PC. The below Utility Window appears:

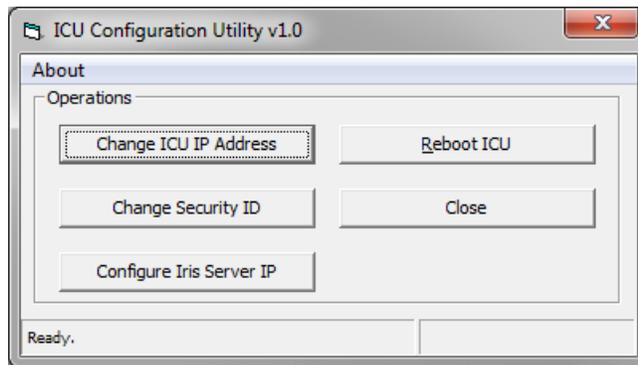


Figure 1

Note: This Utility is designed to be used specifically with an Identity Controller Unit (ICU) and is not intended to replace the usage of the IrisICUAdmin application located within the IrisAccess EAC application Suite.

ICU Configuration Utility Functionality & Operation

This utility allows for several functions of modification that can be performed directly to an ICU. These operational modifications include: **Changing ICU IP Address, Changing Security ID’s, Configuring Iris Server IP,** and a **reboot of the ICU.**

Reference the below information for functionality and operation of the various settings that can be modified within an ICU through this utility.

1. Change ICU IP Address

- A. Select the “*Change ICU IP Address*” button from within the ICU Configuration Utility operations window. The following “Window is displayed:

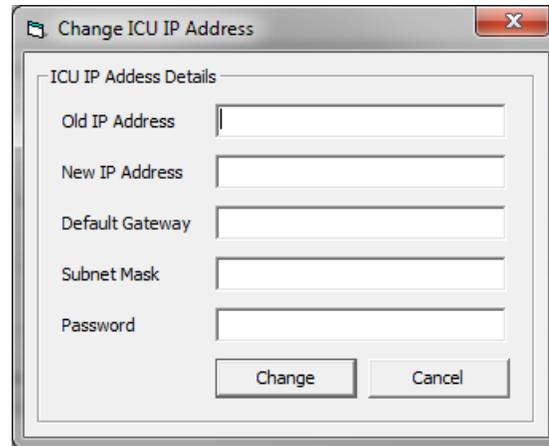


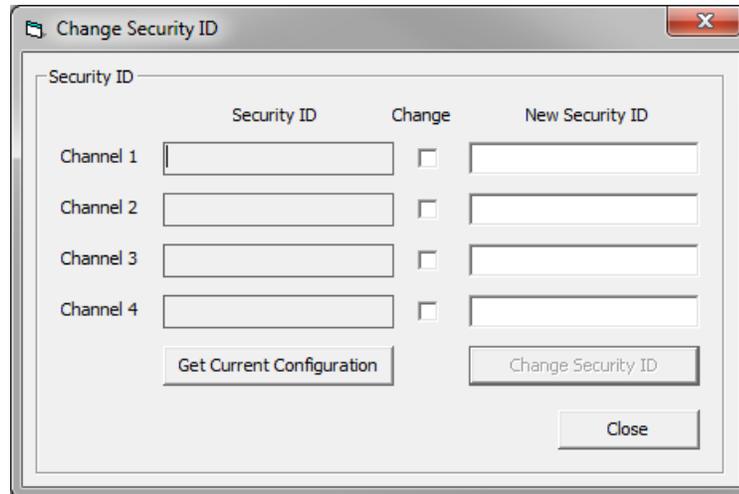
Figure 2

- B.** Enter the ICU IP Address Details for the ICU that will be modified. All fields should be entered with correct information for proper usage. Description of each field is defined below:
- Old IP Address - The Current IP address of the ICU that will be modified (By default from the factory, the IP address is: *192.168.5.200*).
 - New IP Address - The new IP Address to which the ICU will be changed.
 - Default Gateway - The new Default Gateway to which the ICU will be changed.
 - Subnet Mask - The new Subnet Mask to which the ICU will be changed.
 - Password - The Current Password of the ICU that will be modified (By default from the factory, the ICU4000 series Password is: *"iris4000"*).
- C.** Select > **Change** to send settings to the ICU in order for desired modifications to take effect (This process may take several minutes to complete - no message will be displayed, however the utility will wait until the process completes and will prompt for a reboot of the ICU).
- D.** Press > **Reboot ICU** for changes to take full effect. (If other changes such as security ID and/or configuration of Iris Server settings need to be performed, Press **Cancel** - A cancellation will merely suppress the option to reboot however the ICU configuration changes will still take effect after a reboot is performed. The Reboot ICU function can be performed after all setting changes has been made from the Operations section of the ICU Configuration Utility.)

Note: In order for the "Change IP address" section of this utility to function correctly, the IP address, subnet Mask, and Default Gateway **MUST** be configured in Windows with the same IP scheme as the ICU that is going to be changed. Without proper network connection to the ICU (able to ping/communicate with the ICU), the utility will not be able to communicate with the Identity Controller Unit. Additionally, after the utility has been successfully used to modify the IP address of the ICU, you will need to change the IP address of the computer (within Windows) to match the same IP address scheme of the ICU to communicate with that unit (as needed).

2. Change Security ID

- A. Select the “*Change Security ID*” button from within the ICU Configuration Utility operations window. The following “Window is displayed:



	Security ID	Change	New Security ID
Channel 1	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
Channel 2	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
Channel 3	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
Channel 4	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>

Buttons: Get Current Configuration, Change Security ID, Close

Figure 3

- B. To VIEW the current security ID configuration of the channels, press > “***Get Current Configuration***” button.
- C. Select the desired channels of the ICU that are to be changed by clicking on the appropriate check box for the corresponding channel that will need to be modified.
- D. Enter the desired security ID for the channels selected for change. (Make sure that the security ID for each channel has 16 characters, and are unique – no other ICU or IrisAccess EAC program should have the same security ID.)
- E. To CHANGE the current security ID configuration of a channel press > “***Change Current Configuration***” button (after the desired channels have been check marked and security ID’s have been written for the corresponding channel).

NOTE: This process will send settings to the ICU in order for desired modifications to take effect (This process may take several minutes to complete - No additional message will be displayed, however the utility will wait until the process completes and may prompt for a reboot of the ICU.

- E. If the utility Prompts for a reboot - Press > **Reboot ICU** for changes to take full effect. (If other changes (such as configuration of Iris Server settings) need to be performed, Press **Cancel** – a cancellation will merely suppress the option to reboot however the ICU configuration changes will still take effect after a reboot is performed. The Reboot ICU function can be performed after all setting changes has been made from the Operations section of the ICU Configuration Utility.)

3. Change Iris Server IP Address

- A. Select the “*Configure Iris Server IP*” button from within the ICU Configuration Utility operations window. The following “Window is displayed:

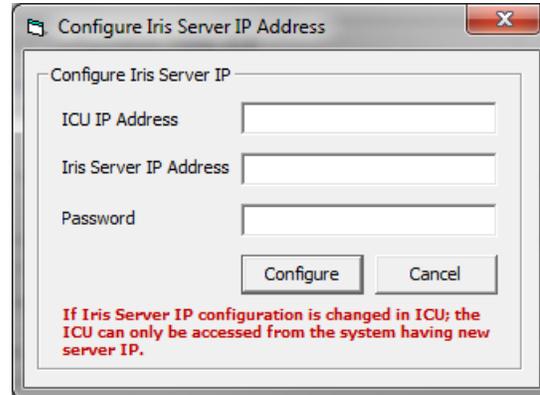


Figure 4

- B. Enter the current ICU IP in the “ICU IP Address” line (By default from the factory, the IP address is 192.168.5.250).
- C. Enter the desired Iris Server IP Address in the “Iris Server IP Address” line.
- D. Enter the ICU Password in the “Password” Line (By default from the factory, the Password is “*iris4000*”).
- F. Select > **Change** to send settings to the ICU in order for desired modifications to take effect (This process may take several minutes to complete - No message will be displayed, however, the utility will wait until the process completes and may prompt for a reboot of the ICU).
- G. If the utility Prompts for a reboot - Press > **Reboot ICU** for changes to take full effect. (If other changes (such as configuration of Iris Server settings) need to be performed, Press **Cancel** – a cancellation will merely suppress the option to reboot however the ICU configuration changes will still take effect after a reboot is performed. The Reboot ICU function can be performed after all setting changes has been made from the Operations section of the ICU Configuration Utility.)

NOTE: If the Iris Server IP configured is changed in the ICU; the ICU can only be accessed from the system that is configured with the new server IP address.

4. Reboot ICU

The “Reboot ICU” function from within the Operations section window of the ICU Configuration Utility allows the ICU unit to be powered off and then immediately back on automatically. If changes to an ICU have been made using this utility, and a reboot function has not been performed, it is required that you reboot the ICU (using this operation method suggested). This utility can also be used in the event that a general reboot need be performed for an ICU. The following steps describe the process by which the ICU can be rebooted through this utility.

- A. Select the *“Reboot ICU”* button from within the ICU Configuration Utility operations window. The following *“Window is displayed:*

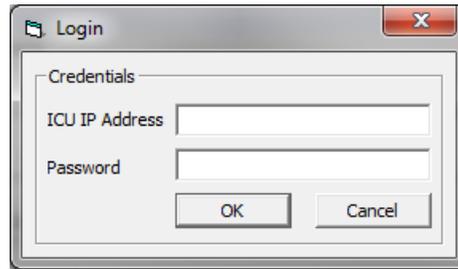


Figure 5

- B. From the login Credentials Window in the *“ICU IP Address”* line, enter the current IP Address of the ICU that will be rebooted.
- C. Enter the current password of the ICU that will be rebooted in the *“Password”* line.
- D. Select > **OK** to send the reboot signal to the ICU for the reboot process to take effect (This reboot process may take several minutes to complete. (When the ICU is back up and running, any setting changes made using this utility should now have taken effect.

5. Close

The *“Close”* function from within the Operations section window of the ICU Configuration Utility allows for the application to be closed properly (and does not relate to any specific function for or to an ICU). To close the application follow the below step process.

- A. Select the *“Close”* button from within the ICU Configuration Utility operations window. The application will terminate and all windows pertaining to the executed application will disappear.

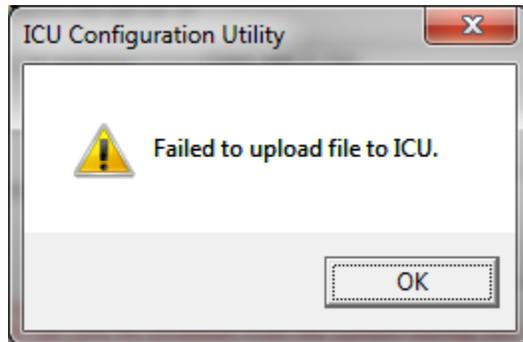
“About” button in the ICU Configuration Utility

The About Button located in the upper left hand corner of the operations window when pressed provides you detailed information to the version of ICU Configuration Utility Software that you are using. Although the *“About”* button does not affect an ICU in any way, new versions of this utility may become available and contain additional features and/or modifications to the utility itself. As this section of the utility allows you to view the version number, you may want to visit the Iris ID website for information about whether updated versions of this utility have become available.

Troubleshooting

If you are unable to connect to the ICU using this utility, and/or are unable to make configuration changes, make sure that the utility is being run on the Iris Server PC. However, if the utility is unable to be run on the

Iris Server PC, make sure that you are using a computer that has the correct Server IP address in order to communicate with the ICU. The below message often will occur if your computer has the wrong IP address (as stated above), or if no network connection to an ICU exists.



Additionally, verify your network connectivity, and that you have properly configured your computers IP address settings to match the Server IP address configured to the ICU. Verify that all Firewalls on the computer and network are disabled, and that all ports are open. Additionally, verify that you are logged on to the computer as administrator on your PC (with full administrative permissions).

If the issue persists please contact Iris ID Technical Support.

Technical Support

Additional Information and Technical assistance is available on the IRIS ID Systems, Inc. support web site at www.irisid.com, click on Support & Service then Technical Support.

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