

ArcSAP Quick Manager

ArcSAP Quick Manager for FC HBA

USER's Guide

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ArcSAP Quick Manager for FC HBA

1. ArcSAP Quick Manager for FC HBA

1.1 Overview

The Areca Single Admin Portal (ArcSAP) quick manager is a graphical-based device management program specifically designed for use in managing and configuring Areca Thunderbolt FC HBA units. The ArcSAP quick manager can scan for multiple HBA units in the local systems and provide an effective mechanism to configure your HBA units.

1.2 Installing the ArcSAP Utility

You must have administrator permissions for the computer on which you are installing ArcSAP quick manager. Before this procedure began, we assume that the HBA unit and OS are installed and operational in your system.

1.2.1 Mac Users

This section describes detailed instructions for installing the Mac ArcSAP Quick Manager for the Areca HBA unit on your system. This can be done in just a few steps!

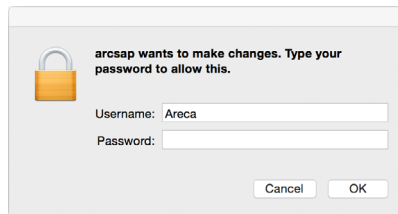
1. Download the ArcSAP installer from the website at "http://www.areca.com.tw/support/s_thunderbolt/4607T2.htm", the file name begins with "arcsap_qfc" followed by the version control or insert the HBA unit software CD in the CD-ROM drive.
2. Double-click on the zipped file that comes from the website or resides at <CDROM>\packages\MacOS to add the installer on the Finder.
3. Double click the arcsap_qfc.dmg to make its content available (name will be shown up in the Finder sidebar), usually a window opens showing the content as well.
4. Drag the application from the arcsap_qfc.dmg window into Applications folder to install.

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5. Wait for the copy process to finish.

Double click on the “**arcsap_qfc**” link from the Applications folder to start your ArcSAP quick manager. By default, the ArcSAP is locked to prevent unauthorized accesses to your HBA units. The ArcSAP password dialog box appears.

Type your Mac computer password into the Password field and click the “**OK**” Button to open it.



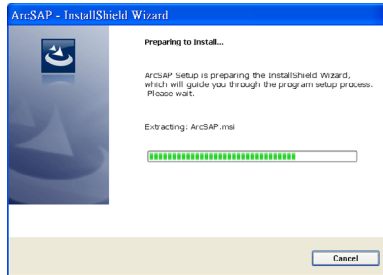
1.2.2 Windows Users

This section describes how to install the ArcSAP quick manager to your operating system. Follow the steps below to install the utility for Windows.

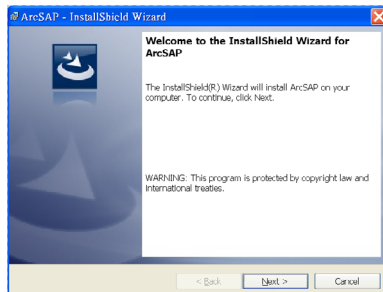
1. Download the ArcSAP installer from the website at “http://www.areca.com.tw/support/s_thunderbolt/4607T2_win.htm”, the file name begins with “arcsap_qfc” followed by the version control or insert the HBA unit software CD in the CD-ROM drive.
2. Double-click on the zipped file that comes from the website or resides at <CDROM>\PACKAGES\Windows to unzip it. Double click on the “setup.exe” file for installing ArcSAP quick manager.

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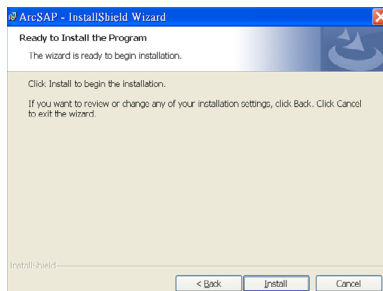
3. The screen shows Preparing to Install.



4. The InstallShield Wizard opens, preparing to install and click on the **Next** button to continue.

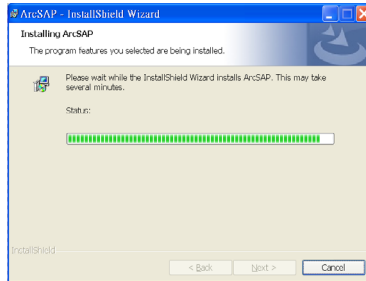


5. When you reach the installation page, click on the **Install** button to continue.

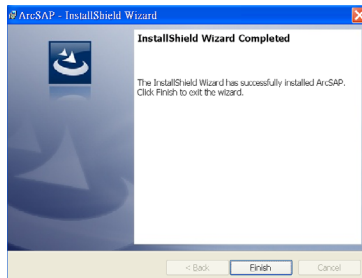


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6. A Progress bar appears that measures the progress of the ArcSAP quick manager setup. When this screen completes, you have completed the ArcSAP quick manager setup.



7. After a successful installation, the "Setup Complete" dialog box of the installation program is displayed. Click on the "**Finish**" button to complete the installation.



There is one "**arcsap_qfc**" icon showing on your "**Programs**" folder for you to locate ArcSAP quick manager program file folder. The "**arcsap_qfc**" icon is for you to start up the ArcSAP quick manager. Click on the "**arcsap_qfc**" program icon to start the ArcSAP quick manager.

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1.3 ArcSAP Main Menu

After starting the ArcSAP quick manager, the main window appears on the screen. The ArcSAP quick manager window contains a HBA List and a Configuration Options. The HBA List tree lists all hosts. When you click on an item in the HBA List tree, the Configuration Options shows additional information about the selection. All management operations pertaining to the HBA units will be performed within the main window. The figure 1-1 shows the elements contained on the main window.

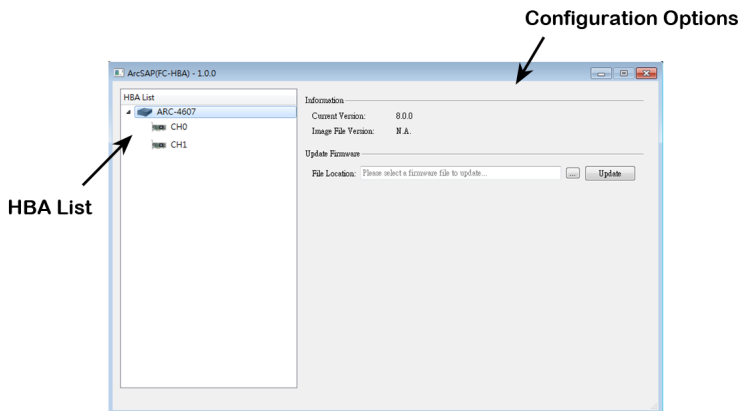


Figure 1-1, ArcSAP Quick Manager Main Window

- The “**HBA List**” window at the left of the display page lists localHost found on the system.
- The “**Configuration Options**” window in the right window pane provides information and options for a device highlighted in the HBA List.

1.4 HBA List

Let’s assume you’ve put all Areca HBA units into a system. The ArcSAP automatically scans the localhost HBA units on the system and creates an individual HBA icon located on left column of the “HBA List” screen. When you double click on a selected element in the HBA List tree, Configuration Options appears. The HBA List tree contains icons and text as visual indicators for the Localhost.

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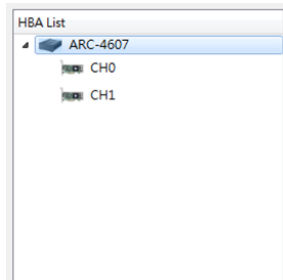


Figure 1-2, HBA List Window

1.5 Configuration Options

The ArcSAP quick manager gives you full control over the HBA; specifying otherwise, only allows you to view the current configuration of the HBA. If you highlight an element in the "HBA List", tabs and panel display for that element shown on the "Configuration Options".

1.5.1 Select a FC HBA

The following tabs display in the "Configuration Options" window when you select a specific FC adapter in the "**HBA List**" window.

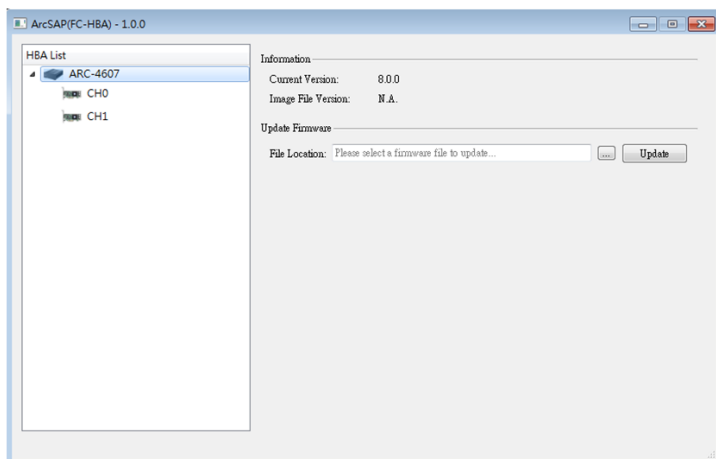


Figure 1-3, Adapter Configuration Window

ArcSAP Quick Manager for FC HBA

1. **Information:**

- (1). **Firmware Version:** The **Current Version** provides currently firmware version about the FC HBA currently highlighted in the HBA list.
- (2). **Image File Version:** The Image File Version provides information about the current revision of flash loaded on the highlighted FC adapter and allows you to update the flash.

2. **Update Firmware:** Update Firmware re-programs the old BIOS through this update process. This update process uses to write a flash image data into FC host adapter's flash ROM from the file location. You must restart the computer for new firmware to take effect after you complete this Update Firmware.

To update the ARC-4607 firmware, first download that latest firmware from Areca website. Then use the utility to update it. Locate the firmware file you downloaded and install it in the ARC-4607 and click the **Update** button.

1.5.2 Select a Channel

The following tabs display in the "Configuration Console" window when you select a specific channel number in the "**HBA List**" window.

You should be familiar with these settings before you make changes. Once you have made the new setting, click Yes to save the new setting.

It is necessary to restart the device for the new setting to take effect.

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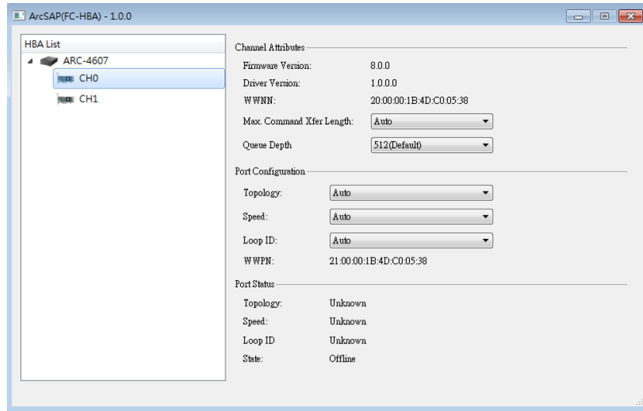


Figure 1-4, Channel Configuration Window

1. **Channel Attributes:** The channel attributes for the ARC-4607Tx-16 (16G FC) present read only information Firmware version, Driver version and WWNN, as well as the status of configurable parameters Max. Command Xfer Length, and Queue Depth. See the pages that follow for information about changing channel attributes settings.
 - (1). **Firmware Version:** The **Firmware Version** provides currently firmware version about the FC HBA currently highlighted in the HBA list.
 - (2). **Driver Version:** The **Driver Version** provides currently driver version about the FC HBA currently highlighted in the HBA list.
 - (3). **WWNN:** A **World Wide Node Name, WWNN**, is a World Wide Name assigned to a node (an endpoint, a device) in a Fibre Channel fabric.
 - (4). **Max. Command Xfer Length:** The Max. Transfer Size option determines the size of the transfers. The largest amount of data that can be transferred by a single FC command is often a concern. Use this command to set a "best" IO size for the FC host adapter. When you choose this option, the max setting in the device driver is the maximum number of IO size allowed in a single FC com-

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mand's scatter gather lists (for data transfers). The Max. Command Xfer Length choices: "Auto", "32 KB", "64KB", "128 KB", "512 KB", "1 MB", "2 MB", and default: "Auto".

- (5). **Queue Depth:** The queue depth is the number of I/O requests (read/write commands) that can be queued at one time on a device. To change the Queue Depth, use the pull-down menu to select a maximum number of OS commands allowed to queue. The Queue Depth choices: "Auto", "16", "32", "64", "128", "256", and default: "512".

2. **Port Configuration:** The port configuration for the ARC-4607Tx-16 (16G FC) present read only information WWPN, State, as well as the status of configurable parameters Topology, Speed, and Loop ID. See the pages that follow for information about changing port settings.

- (1). **Topology:** Each Fibre Channel interconnect node uses three physical topologies: Loop (Public loop), Point-to-Point or Auto. The default Channel Topology is set to "Auto", which takes precedence of Loop Topology. Loop configuration is a ring topology that shares the Fibre Channel bandwidth among multiple endpoints. A "point to Point" configuration is a direct connection between two endpoints. The new Channel Topology setting will take effect after your controller power cycle again. The current connection topology is shown at end of the row. To change the topology of a Fibre Channel port, in the port menu tab, use the pull-down menu to choose "Point to Point", "Public Loop" or "Auto (default)".

- (2). **Speed:** Fibre Channel is a high-speed robust protocol for

Note:

The current topology is shown as "None" when no successful connection is link for the channel.

managing the transfer of information in storage area networks (SANs). Each channel supports data rates either as 4 Gbps, 8 Gbps, or 16 Gbps. The "Auto" default option is for adapter auto speed negotiation between 4 Gbps/8

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Gbps/16 Gbps. The new Channel Speed setting will take effect during the link down/link of the channel. The current channel speed is shown at end of the row. To change the port speed of a Fibre Channel port, in the port menu tab, use the pull-down menu to choose "4G BIT", "8G BIT", "16G BIT" or "Auto (default)".

- (3). **Loop ID:** This setting is useful for channel "Loop (Public loop)" topology. When enabled, you can manually set the "Hard Loop ID" from 0 to 125 into a logical loop. Make sure this hard assigned ID does not conflict with other devices on the same logical loop; otherwise the channel will be automatically disabled. The "Auto" option is for adapter to dynamic configure "the Hard Loop ID" value. To set a Hard Loop for the topology, in the port menu tab, click the Enable Hard LoopID.
- (4). **WWPN:** A **WWPN** is a World Wide Name assigned to a port in a Fibre Channel fabric.
3. **Port Status:** The port status for the ARC-4607Tx-16 (16G FC) present read only information about the currently port status of **Topology**, **Speed**, **Loop ID**, and **State**.