

Silex Ethernet-to-Wi-Fi Bridge

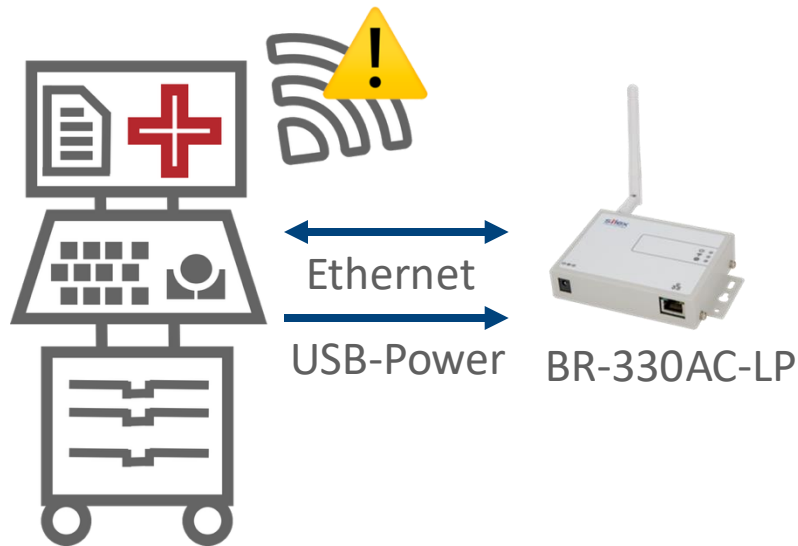
Guide to Large-scale setup to Maintenance

Sep.30th, 2025



Silex Ethernet-to-Wi-Fi Bridge

Connectivity Challenge



Solution



Retrofit: Plug & Play, Mobile



Reliable: Stable performance in 2.4GHz & 5 GHz, Fast roaming



Secure: Enterprise security, MAC address binding



Manageability: Remote management, 1 interface for all devices



Low TCO: Easy maintenance, No MDR re-certification



Silex Ethernet-to-Wi-Fi Bridge Portfolio



BR-330AC-LP

Low power model

- 100TX + 802.11ac 1Tx1R
- Supports WPA2
Personal/Enterprise



BR-500AC

High performance model

- 1000T + 802.11ac 2Tx2R MU MIMO
- Supports WPA3
Personal/Enterprise

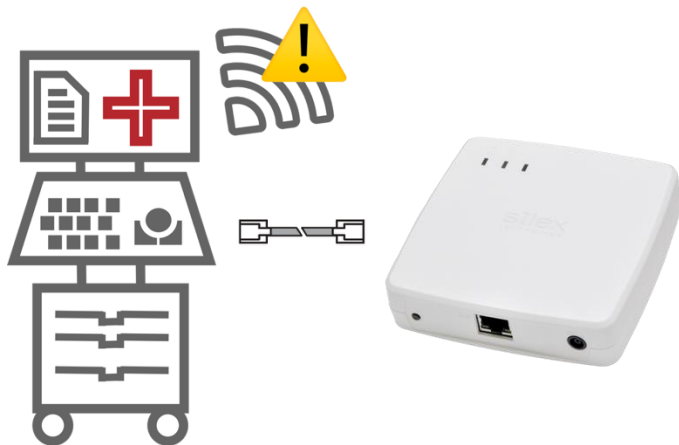


Supported Number of Client Devices

Common Feature for BR-330AC-LP and BR-500AC

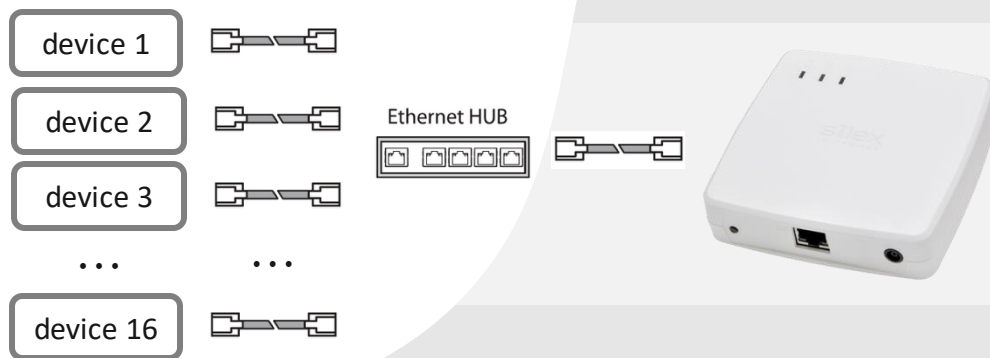
Single-Client Mode

- Faster and best reliable



Multi-Client Mode

- supports up to 16 client devices

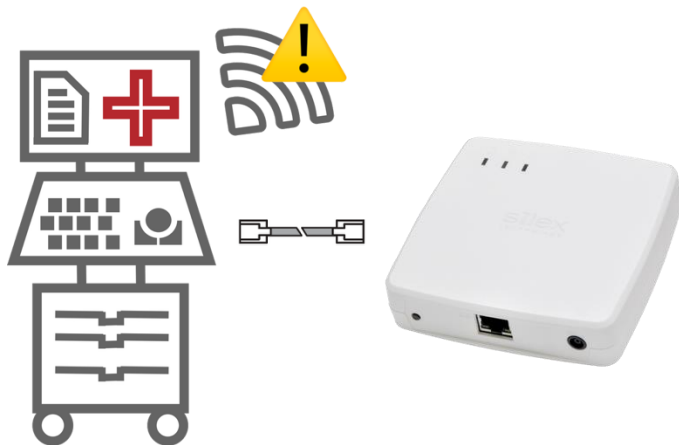


Supported Number of Client Devices

Common Feature for BR-330AC-LP and BR-500AC

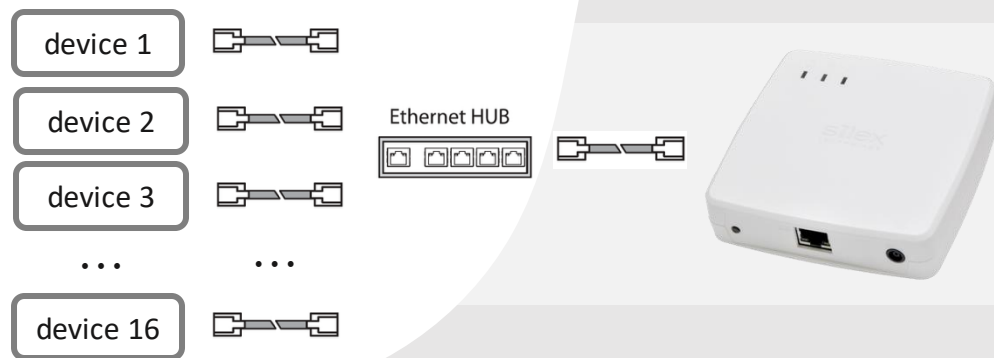
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Multi-Client Mode

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Silex Ethernet-to-Wi-Fi Bridge

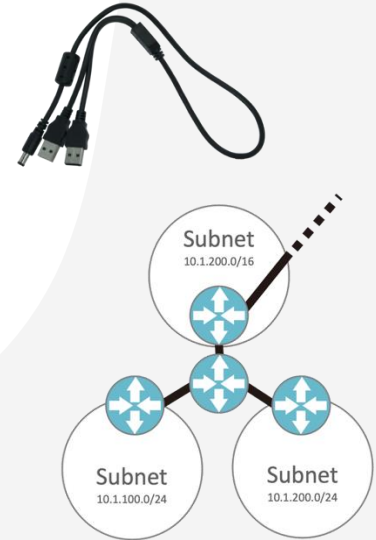
From Setup to Maintenance



From Setup to Maintenance

Preparation

- Collect info of your network environment
- Determine if to use Silex Bridges in Single-Client Mode or Multi-Client Mode
- Does your device have USB power supply for a Silex Bridge – Please consider using our Y-shaped USB power cable (option)
- To use AMC Manager (Device management software)
 - Firewall needs to be disabled for ports 60000 and 60001
 - A router needs to be capable of forwarding the device search packets (port), to be able to access to bridges in a different subnet



From Setup to Maintenance

1. **Initial Setup**
2. **Deployment**
3. **Maintenance**

From Setup to Maintenance

1. **Initial Setup**
2. Deployment
3. Maintenance

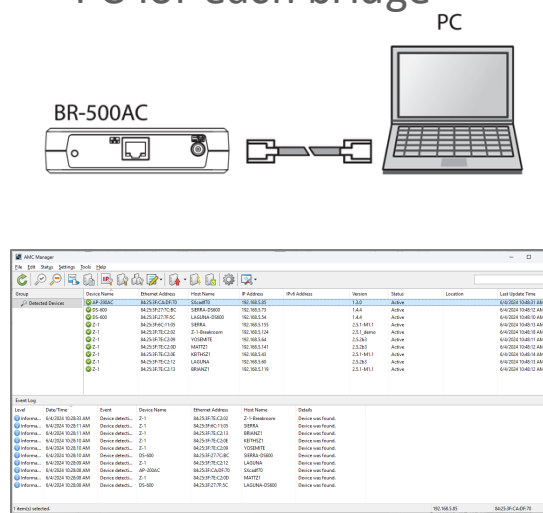
3 ways to setup

1. Bridge's WebUI for each bridge

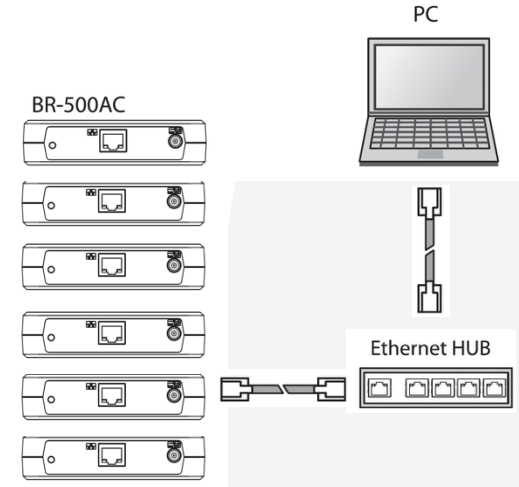


Advantage: No software installation

2. AMC Manager on PC for each bridge



3. AMC Manager Bulk configuration*



Advantage: Setup of multiple bridges at once

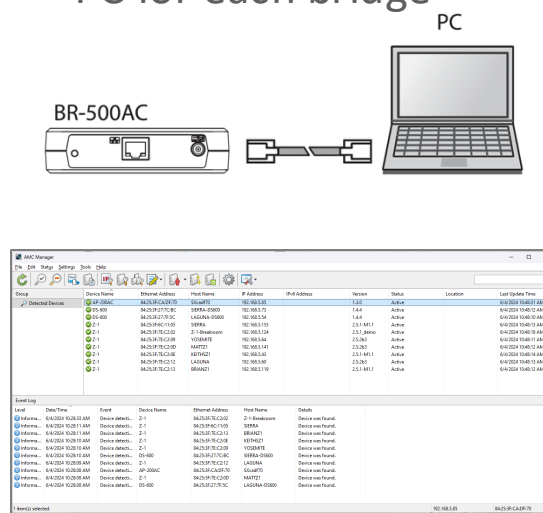
3 ways to setup

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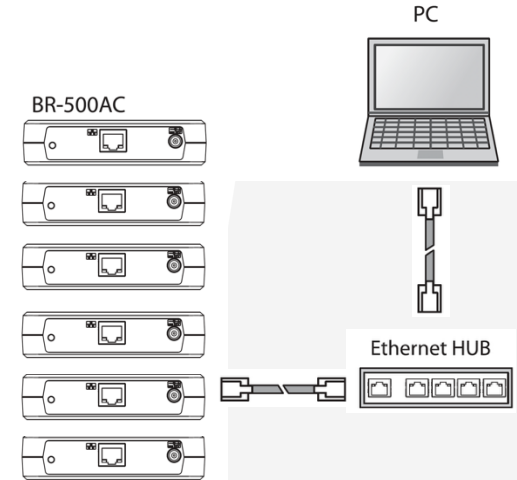


Advantage: No software installation

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3. AMC Manager Bulk configuration*



Advantage: Setup of multiple bridges at once

Bulk Configuration with AMC Manager 1/3

Physical preparation

1. You plug bridges to a hub, which is connected to a PC for the setup

On your PC

1. Create a configuration file - Select from the top menu bar
2. Device search, then select bridges for the setup
3. Select 'Bulk Configuration' on the top menu bar
4. A pop-up window 'Bulk Configuration – Choose a config file and Configure

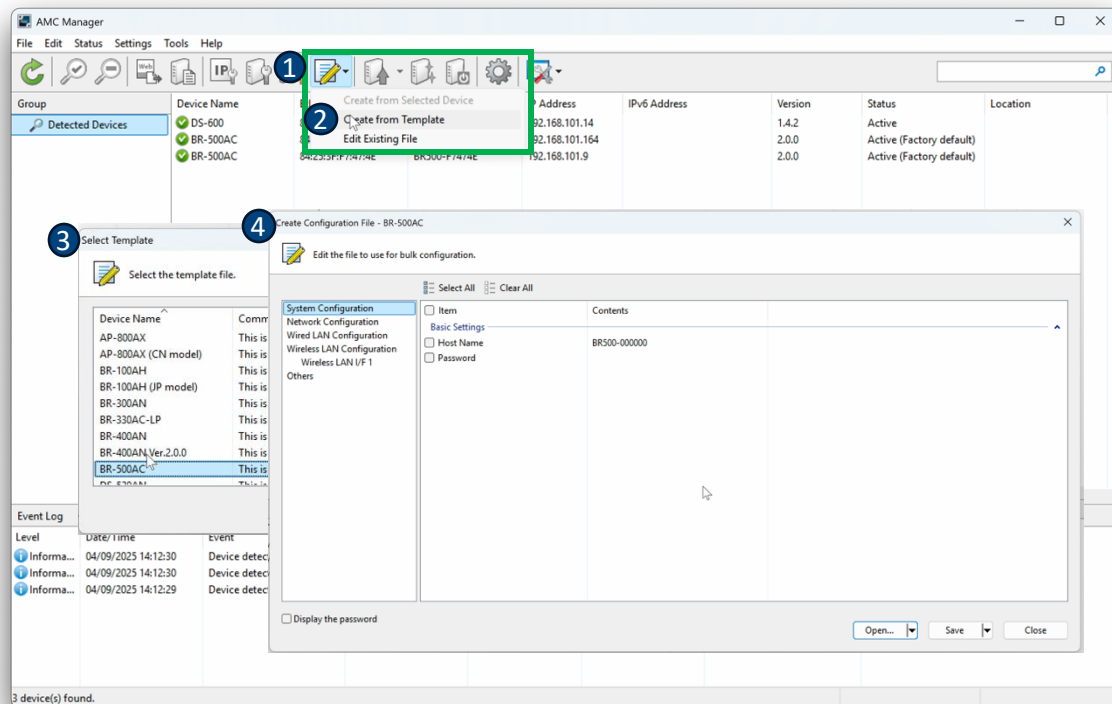
Bulk Configuration with AMC Manager 2/3

Config file creation

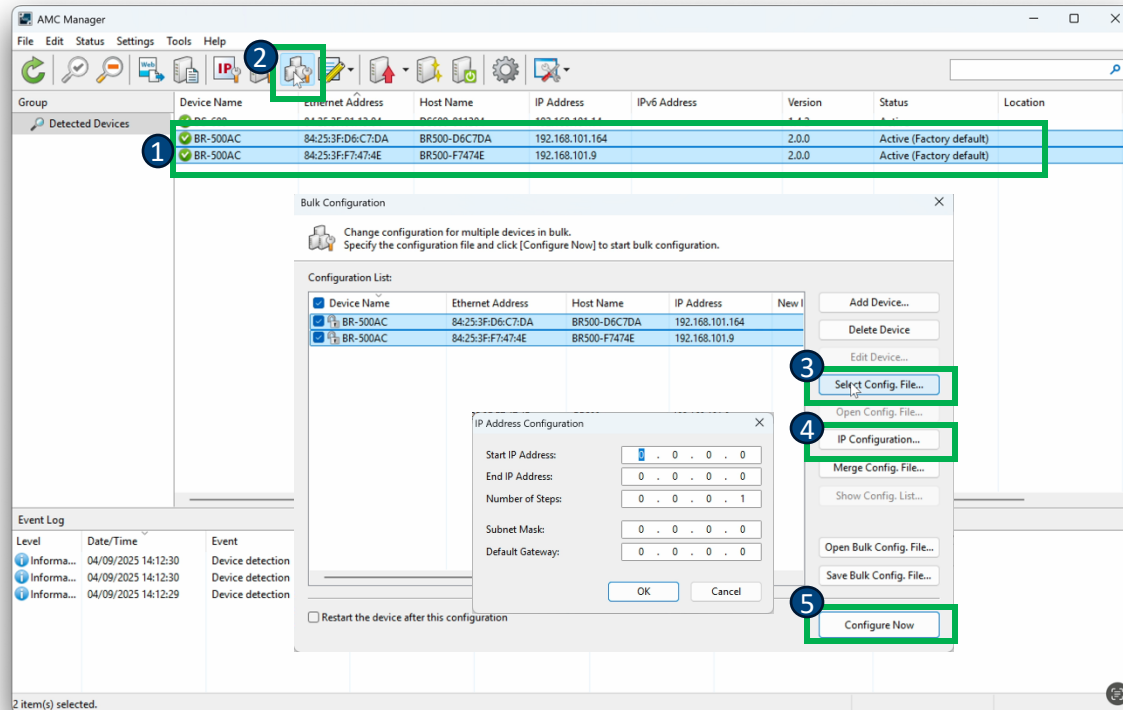
You can create a config file - there are the two options.

- Create a config file out of the already setup device
- Create a config file from Template*

*Limitation: 1 client certificate for all bridges, no unique client certificate for each bridge



Bulk Configuration with AMC Manager 3/3



Bulk Configuration

1. Select devices
2. Click 'Configure multiple devices in bulk'
3. Select Config File
4. IP Configuration (Optional)
5. Configure Now

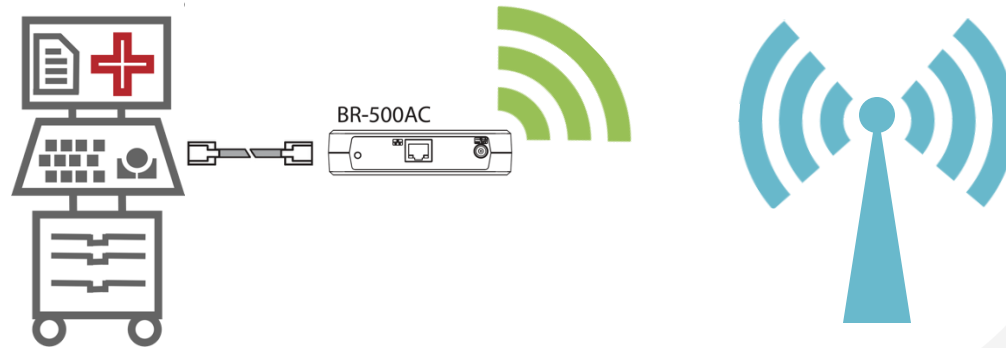
From Setup to Maintenance

1. Initial Setup
2. **Deployment**
3. Maintenance

Deployment

Plug the bridge to your client device, and turn it on

Now the medical device should start working as if it is connected via Ethernet cable

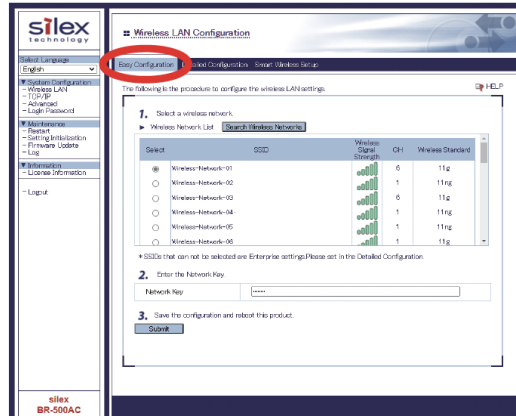


From Setup to Maintenance

1. Initial Setup
2. Deployment
3. **Maintenance**

2 ways to monitor and update settings

1. Bridge's WebUI for each bridge



2. AMC Manager on PC for multiple bridges



A screenshot of the AMC Manager software interface. It displays a table of devices with columns for Group, Device Name, Ethernet Address, Host Name, IP Address, Version, Status, Location, and Last Update Time. The table lists several devices, including BR-500AC and BR-500, with their respective IP addresses and status (Active). Below the table, there is a 'Event Log' section showing a list of events with columns for Level, Date/Time, Event, Device Name, Ethernet Address, Host Name, and Details.

Group	Device Name	Ethernet Address	Host Name	IP Address	Version	Status	Location	Last Update Time
BR-500AC	BR-500AC-01	88A9B000	BR-500AC	192.168.1.10	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-01	88A9B000	BR-500	192.168.1.11	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-02	88A9B000	BR-500	192.168.1.12	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-03	88A9B000	BR-500	192.168.1.13	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-04	88A9B000	BR-500	192.168.1.14	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-05	88A9B000	BR-500	192.168.1.15	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-06	88A9B000	BR-500	192.168.1.16	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-07	88A9B000	BR-500	192.168.1.17	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-08	88A9B000	BR-500	192.168.1.18	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-09	88A9B000	BR-500	192.168.1.19	1.0.0	Active		6/4/2014 10:48:11 AM
BR-500	BR-500-10	88A9B000	BR-500	192.168.1.20	1.0.0	Active		6/4/2014 10:48:11 AM

Advantage:
Status overview of multiple devices,
- 'Bulk Configuration'

Monitor and Maintenance 1/5

End user of client device (example depends on organization policy)

1. Device Status Check: LED lamps of the bridge
 1. If a communication failure happens, then;
2. Contact IT administrator who have access to the bridge configuration upon issue
3. Restart the bridge by unplugging and plugging the power cable

On your PC

1. Device Status Check: AMC Manager Main Window
2. Device Search options
3. Log files for Trouble shooting
4. Firmware Update to improve security and/or use new features
5. Modify setting (Bulk Configuration same as in the initial setup)
6. Update a client certificate (If 802.1x enterprise security is in use)

Monitor and Maintenance 2/5 – main window

AMC Manager

File Edit Status Settings Tools Help

Detected Devices

Group	Device Name	Ethernet Address	Host Name	IP Address	IPv6 Address	Version	Status	Location	Last Update Time
Detected Devices	P-200AC	84:25:3F:CA:DF:70	SXcad70	192.168.5.85		1.3.0	Active		6/4/2024 10:48:31 AM
	S-600	84:25:3F:27:7C:BC	SIERRA-DS600	192.168.5.73		1.4.4	Active		6/4/2024 10:48:12 AM
	S-600	84:25:3F:27:7F:5C	LAGUNA-DS600	192.168.5.54		1.4.4	Active		6/4/2024 10:48:10 AM
	Z-1	84:25:3F:6C:11:05	SIERRA	192.168.5.155		2.5.1-M1.1	Active		6/4/2024 10:48:13 AM
	Z-1	84:25:3F:7E:C2:02	Z-1-Breakroom	192.168.5.124		2.5.1_demo	Active		6/4/2024 10:48:18 AM
	Z-1	84:25:3F:7E:C2:09	YOSEMITE	192.168.5.64		2.5.2b3	Active		6/4/2024 10:48:11 AM
	Z-1	84:25:3F:7E:C2:0D	MATTZ1	192.168.5.141		2.5.2b3	Active		6/4/2024 10:48:12 AM
	Z-1	84:25:3F:7E:C2:0E	KEITHSZ1	192.168.5.43		2.5.1-M1.1	Active		6/4/2024 10:48:14 AM
	Z-1	84:25:3F:7E:C2:12	LAGUNA	192.168.5.60		2.5.2b3	Active		6/4/2024 10:48:13 AM
	Z-1	84:25:3F:7E:C2:13	BRIANZ1	192.168.5.119		2.5.1-M1.1	Active		6/4/2024 10:48:12 AM

Event Log

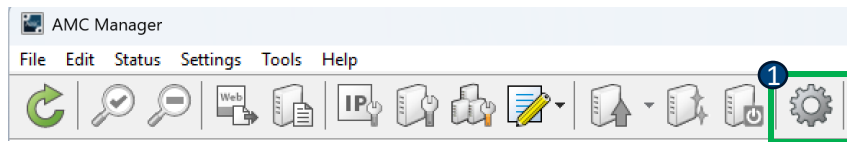
Level	Date/Time	Event	Device Name	Ethernet Address	Host Name	Details
Information	6/4/2024 10:28:33 AM	Device detected	Z-1	84:25:3F:7E:C2:02	Z-1-Breakroom	Device
Information	6/4/2024 10:28:11 AM	Device detected	Z-1	84:25:3F:6C:11:05	SIERRA	Device
Information	6/4/2024 10:28:11 AM	Device detected	Z-1	84:25:3F:7E:C2:13	BRIANZ1	Device
Information	6/4/2024 10:28:10 AM	Device detected	Z-1	84:25:3F:7E:C2:0E	KEITHSZ1	Device
Information	6/4/2024 10:28:10 AM	Device detected	Z-1	84:25:3F:7E:C2:09	YOSEMITE	Device
Information	6/4/2024 10:28:10 AM	Device detected	DS-600	84:25:3F:27:7C:BC	SIERRA-DS600	Device
Information	6/4/2024 10:28:09 AM	Device detected	Z-1	84:25:3F:7E:C2:12	LAGUNA	Device
Information	6/4/2024 10:28:08 AM	Device detected	AP-200AC	84:25:3F:CA:DF:70	SXcad70	Device
Information	6/4/2024 10:28:08 AM	Device detected	Z-1	84:25:3F:7E:C2:0D	MATTZ1	Device
Information	6/4/2024 10:28:08 AM	Device detected	DS-600	84:25:3F:27:7F:5C	LAGUNA-DS600	Device

1 item(s) selected.

192.168.5.85 84:25:3F:CA:DF:70

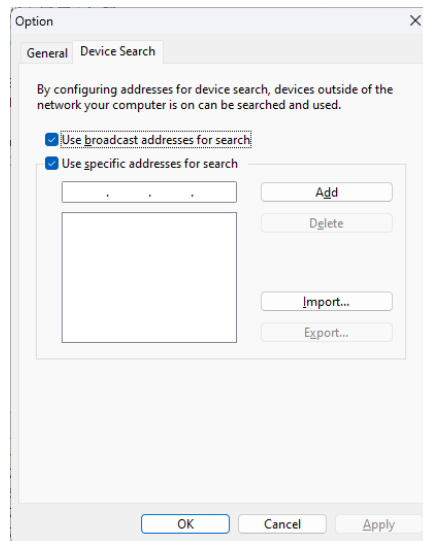
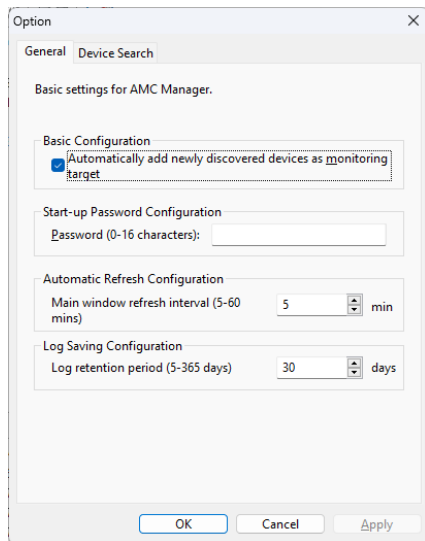
Icon	Status	Details
	Refreshing the status	Retrieving the device status.
	Ready	Device is operating.
	Ready (factory defaults)	Device is operating with the factory default settings.
	No reply	Device is not found on a network.
	No reply (factory defaults)	Device is not found on a network.
	Not a monitoring target	Device is not a target for monitoring.
	Not detected	Device is not detected.

Monitor and Maintenance 3/5



Device Search Options

1. Click 'Option' Icon
2. Change setting for device search



How it works?

- AMC manager automatically detect Silex's devices on the network.
- Broadcast search packet and wait for responses
- Directional search by specifying IP addresses (Broadcast address can be entered, but no guarantee it works, it depends on a switching hub and your network setup)

Monitor and Maintenance 4/5



Log Viewer - 20240605

File View Help

History (Local)

- 2024/06/05
- 2024/06/04
- 2024/05/31
- 2024/05/30
- 2024/05/29
- 2024/05/22
- 2024/05/21
- 2024/05/12
- 2024/05/11
- 2024/05/10

Level	Date/Time	Event	Device Name	Ethernet Address	Host Name	Details
Informat.	2024/06/05 08:...	Device recovery	AP-200AC	84:25:3F:CA:DF:70	SXcadf70	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:7E:C2:12	LAGUNA	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:7E:C2:0E	KEITHSZ1	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:7E:C2:13	BRIANZ1	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:6C:11:05	SIERRA	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:7E:C2:02	Z-1-Breakroom	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	DS-600	84:25:3F:27:7C:BC	SIERRA-DS600	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:7E:C2:09	YOSEMITE	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	DS-600	84:25:3F:27:7F:5C	LAGUNA-DS600	Recovered from network ei
Informat.	2024/06/05 08:...	Device recovery	Z-1	84:25:3F:7E:C2:0D	MATTZ1	Recovered from network ei
Error	2024/06/05 08:...	Device loss	AP-100AH	84:25:3F:AB:17:6C	SDSAB176D	Reply was lost.
Error	2024/06/05 08:...	Device loss	EX-150AH	1C:BC:EC:00:13:AC	EX150-0013AC	Reply was lost.
Error	2024/06/05 08:...	Device loss	SX-AP-4800AN2	84:25:3F:42:69:B1	SX4269B1	Reply was lost.
Error	2024/06/05 08:...	Device loss	BR-100AH	84:25:3F:ED:18:C6	SDSED18C7	Reply was lost.
Informat.	2024/06/05 07:...	Device recovery	BR-100AH	84:25:3F:ED:18:C6	SDSED18C7	Recovered from network ei
Informat.	2024/06/05 07:...	Device recovery	AP-100AH	84:25:3F:AB:17:6C	SDSAB176D	Recovered from network ei
Error	2024/06/05 07:...	Device loss	BR-100AH	84:25:3F:ED:18:C6	SDSED18C7	Reply was lost.
Error	2024/06/05 07:...	Device loss	AP-100AH	84:25:3F:AB:17:6C	SDSAB176D	Reply was lost.
Informat.	2024/06/05 00:...	Device recovery	BR-100AH	84:25:3F:ED:18:C6	SDSED18C7	Recovered from network ei
Informat.	2024/06/05 00:...	Device recovery	EX-150AH	1C:BC:EC:00:13:AC	EX150-0013AC	Recovered from network ei
Informat.	2024/06/05 00:...	Device recovery	AP-100AH	84:25:3F:AB:17:6C	SDSAB176D	Recovered from network ei

24 item(s) found.

Log Viewer

Open Log Viewer

- Log Viewer Icon on top menu > Start Log Viewer

Log file export

1. File > Export

Detailed info

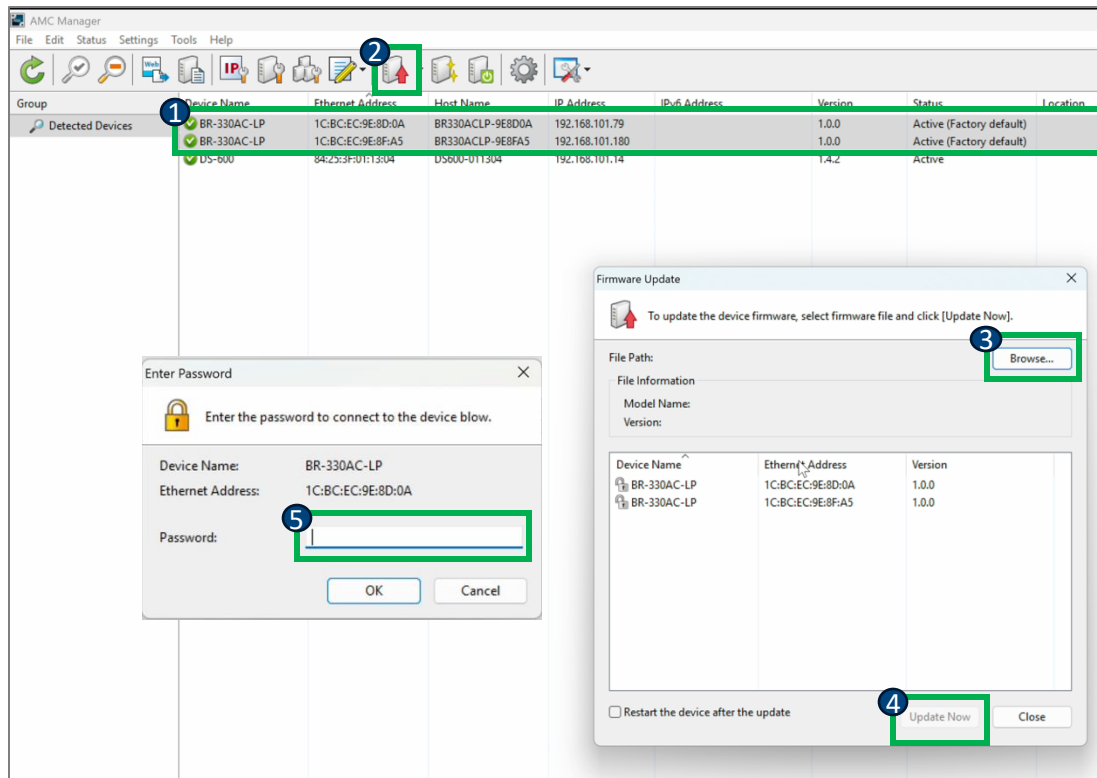
– User manual 4-12.

Accessing Logs on Log Viewer (p108 -)

Monitor and Maintenance 5/5

Firmware Update

1. Select devices
2. Click 'Firmware update'
3. Select a Firmware file (download from silex website)
4. Click 'Update Now'
5. Enter the device password in pop-up window





 When it **Absolutely Must** Connect
“どうしてもつなげたい” そのときに