

ATTENTION – PLEASE READ THIS DOCUMENT
IMPORTANT CONFIGURATION DETAILS ARE INCLUDED

New features and configuration settings in AH30 Gen5 Aperio HUBs

The Gen5 hubs are backward compatible with the earlier hub generation and they can be used also as a one to one replacement in case needed.

Since this is a new generation of products besides backward compatibility these units provides additional features and might require additional configuration both at new installations and also for replacement cases.

This document summarises the cases for configuration to highlight changes.

Please read this carefully as the system you are adding this hub might require additional configuration comparing to previous content of hub configuration.

1. Mifare Classic communication mode over RS485

Aperio AH30 RS485 hubs can transmit Mifare credential data to the access control system in different ways. Please consult with your system's supplier what are the required settings for its system.

How to configure to meet with earlier hub generation's settings:

Start HUB configuration and use the *Next* button on the dialogs to arrive page of *Electronic Access Controller Settings*.

At the bottom of the screen you can find *EAC Credential Settings* area. Click on the *Change* button to see screen like below.

Configure Communication Hub [AA96F3]

Electronic Access Controller Settings
Change settings if needed.

EAC Addressing Mode

Normal address offset Include

Lock Access Decision Timeout

2 seconds Include

Remote Unlock

Remote Unlock Time to Live: 5 minutes Include

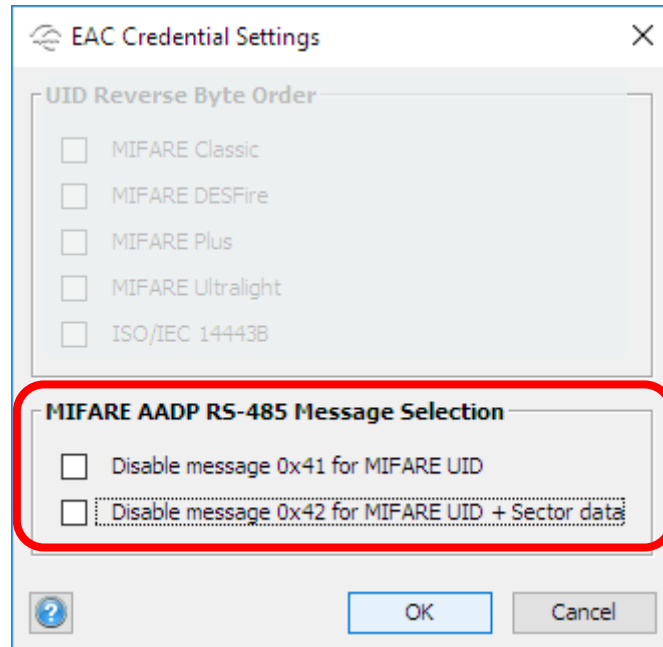
Restore EAC Address to DIP Switch Setting

EAC address via DIP switch setting Include

EAC Credential Settings

Disabled for all RFID technologies
Disable message 0x41 for MIFARE UID
Disable message 0x42 for MIFARE UID + Sector data Include

Make sure that both options (Disable message 0x41 for MIFARE UID and Disable message 0x42 for MIFARE UID + Sector data) are unselected like on the screenshot. Click OK to continue configuration. This will make your AH30 Gen5 hub 100% backward compatible.

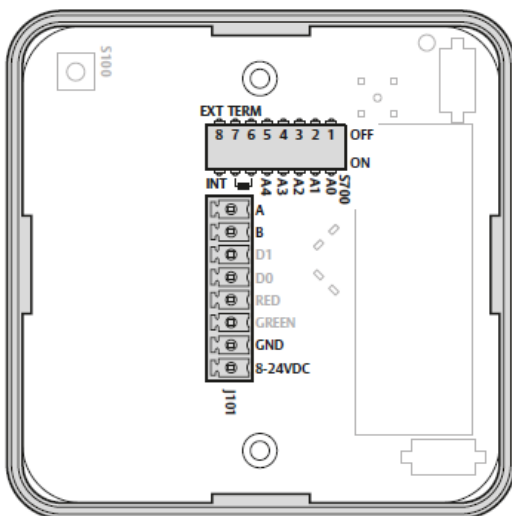


2. New DIP Switch settings

While the terminal block and wiring is exactly the same in a Gen5 hub as the previous generation the DIP switch block is different.

Please note the main differences:

1. There are no more Pull-up and Pull-down resistors but 2 switches to activate EOL resistor – DIP nr 6 and 7. **ATTENTION:** to activate the EOL resistor you need to switch both nr 6 and 7 to ON position.
2. DIP 8 is the antenna selector between internal and external options (it was DIP 10 in the previous generation)



DIP SWITCH NUMBER	LABEL	DESCRIPTION
1-5	A0-A4	Controls RS485 addressing BIT 0-BIT 4. ON => Address bit set. OFF => Address bit NOT set. See AH30 - RS485 Addressing Reference on page 13.
6-7	TERM	Control use of termination resistor between RS485 A and RS485 B. For termination to be enabled, both switches must be set to ON. ON => 120 Ohm termination resistor connected/ enabled. OFF => 120 Ohm termination resistor disconnected/ disabled.
8	INT/EXT	Controls use of external antenna if required. ON => Selects use of internal antenna. OFF => Selects use of external antenna.