SIEMENS

Access Control
Migration AC5100 to AC5102

Configuration

Siemens AB

Security Products

Liefermöglichkeiten und technische Änderungen vorbehalten.
Data and design subject to change without notice. / Supply subject to availability.

Contents

1 Introduction

This document describes the replacement of an ACC with an ACC-G2 and the limitations that have to be considered.

Below table shows the difference of ports available.

	ACC	**ACC-G2**
FLN 1	X	X
FLN 2	X	X
FLN 3a	X	X (FLN 3)
FLN 3b	X	
FLN 4	X	X
BLN	X	X (FLN 5)
ISa/b	X	X (FLN 6)
Diag	X	X
Modem (RS232)	X	X (FLN 1)

It could be possible that an ACC that has all FLN ports in use can not be replaced directly by a single ACC-G2. A second ACC-G2 and rewiring/reconfiguration of the FLN bus are necessary.

Later are described some use cases and the necessary steps to replace an ACC with an ACC-G2.

Fig. 1 AC5100 (ACC) and AC5102 (ACC-G2)

2 General information

The ACC-G2 is supported from SiPass integrated version MP2.4 and onwards. When purchasing the ACC-G2 it will be delivered with MP2.4 and MP2.5 compatible firmware. An update to MP2.4 is free of charge and can be ordered via our logistic department like a normal license update.

It is recommended always using the latest SiPass build/version.

SiPass integrated versions 2.6 or higher provides a new unit type called: ACC-G2

If an ACC is replaced by an ACC-G2 the unit type has to be changed in the configuration for the particular controller.

If the ACC to be replaced is using all of the 7 possible FLN connection ports (3a and 3b are one logical FLN but offers 2 connection ports) it is not possible to replace the existing ACC with a single ACC-G2. The following use cases in this document will handle such problems, their will be step by step instructions necessary to perform the changes.

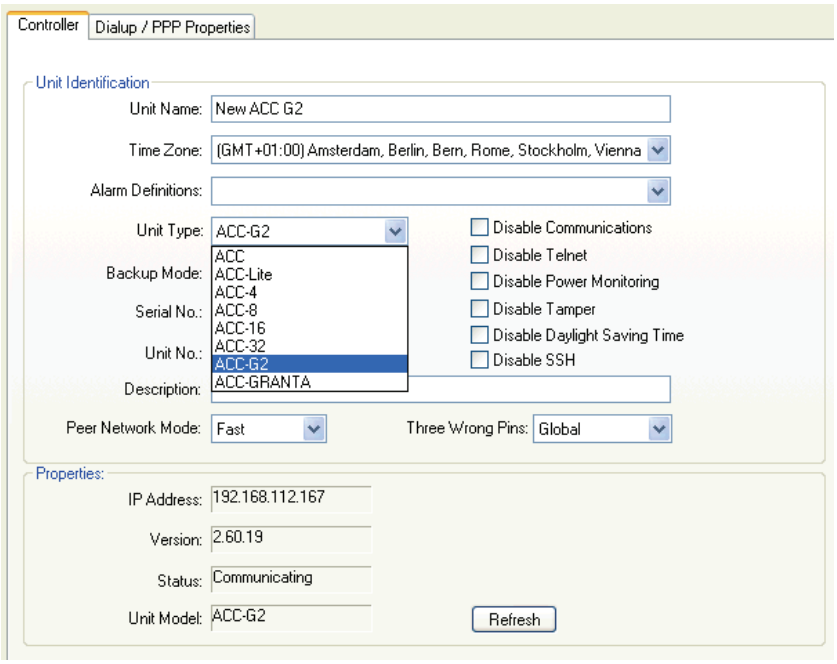


Fig. 2 MP2.6 Component screen controller tab

Important Note:

If the ACC G2 is running under SiPass integrated MP2.6 or higher a firmware download with the corresponding ACC G2 firmware has to performed.

This step should be done as soon the new ACC-G2 is online.

The correct ACC-G2 firmware is located on each SiPass integrated product DVD (\Firmware\ACC\ACC G2_Granta).

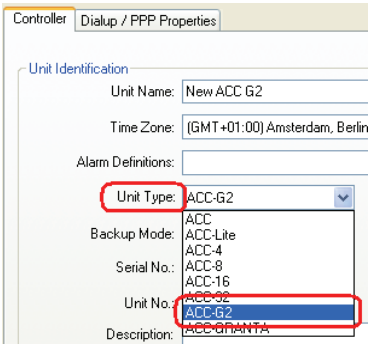
3 Use Cases

3.1 FLN 3a and 3b used - but not FLNx

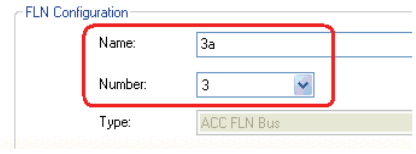
This use case describes the steps if FLN 3a and 3b are used but another FLN is free. This could also be used for the IS or the BLN port that are configured as normal FLN's only if no Sintony or HLI is connected to the IS port.

MP2.6 or higher:

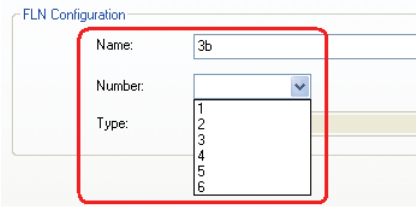
1. ACC type has to be changed to ACC-G2 with help of the SiPass components screen.



2. ACC FLN 3a get the ACC-G2 FLN number 3, no further steps necessary.



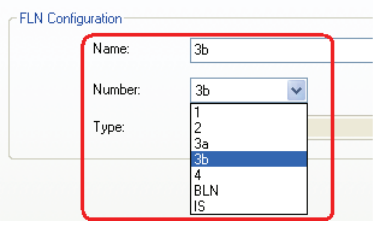
3. ACC FLN 3b will have no FLN number assigned; you can choose any free FLN.



4. Download current ACC-G2 firmware, the ACC-G2 is delivered with MP2.4 compatible firmware and has to be updated if connected to MP2.6 or higher.
5. Initialize the new ACC-G2.

MP2.4 and 2.5:

1. ACC FLN 3a will be ACC-G2 FLN number 3 just like in the above case.
2. For ACC FLN 3b a free FLN port at the ACC-G2 has to be chosen.



Following the Port assignment:

ACC		ACC-G2
FLN 1	=>	FLN 1
FLN 2	=>	FLN 2
FLN 3a	=>	FLN 3
FLN 3b	=>	not available
FLN 4	=>	FLN 4
BLN	=>	FLN 5
ISa/b	=>	FLN 6

3. Initialize the ACC-G2.

3.2 Sintony connected to ISa/b port

The Sintony intrusion Panel is always connected to the ISa port of the ACC. The ACC-G2 port mapping table above shows that the ISa/b is mapped to FLN 5. But the FLN 5 at the ACC-G2 is a pure RS485 port and can't communicate with the Sintony because this is a RS232 connection. So the port has to be mapped to another ACC-G2 FLN port supporting RS232 (FLN2 or 3).

The port mapping is described at the following document:
020_AC5102_Inst_Addendum_A6V10349572_a_en_16_12_11.pdf at page 10

This document is on each SiPass DVD 2.6 SP1 or higher.

The above named document also describes how to connect the ACC-G2 over USB to a PC for configuration. Recommended is the configuration via Telnet if the ACC-G2 is online and available over the network.

The following example shows how to use the port mapping to map the FLN port 5 to FLN port 2 and assigned the ISa/b functions.

Log into the ACC-G2 with **SIEMENS** and **spirit**

Enter "portmap" getting the current FLN port configuration:

1 FLN1 = 1

2 FLN2 = 2

3 FLN3 = 3

4 FLN4 = 4

5 FLN5 = 5

6 FLN6 = 6

For our example, mapping port 6 to port 2 and port 2 to port 6, following configuration string has to be entered (without “):

“portmap replace 6 IS = 2”

The feedback form the controller is:

IS bus is mapped to port 2

Note : use the command "portmap restart" for the change to take effect

Important is to perform the second step also:

“portmap replace 2 FLN2 = 6”

The feedback form the controller is:

FLN2 bus is mapped to port 6

Note : use the command "portmap restart" for the change to take effect

Enter "portmap restart” that the port mapping configuration is considered.

If within SiPass integrated port 2 is chosen the ACC-G2 FLN port 6 is used.

The FLN2 is now the ISa/b port

Entered “portmap” again displaying the current port mapping configuration:

1 FLN1 = 1

2 FLN2 = 6

3 FLN3 = 3

4 FLN4 = 4

5 FLN5 = 5

6 IS = 2

Advice:

We recommend putting a sticker to the ACC-G2 with the configured port mapping so that any other technician knows what port mapping is in use and configured.

Otherwise it could be a challenge to understand why ports are used but not configured inside SiPass. This information is important if the site will be extended with a new FLN to connect further doors to the system at a later date.

Important:

The EOL (End of Line) resistor at the ACC-G2 has to be unset for the FLN port where the Sintony is connected (FLN 2). If this is not considered the communication to the connected Sintony will be unstable.

If the ACC-G2 will be initialized an a port mapping is configured a corresponding Audit Trail messages will highlight this.

FLN 6 is remapped to port 2
FLN 2 is remapped to port 6

3.3 Dialing Modem connected to ACC

The ACC offers a separate RS232 port for modem connections. The ACC-G2 utilizes FLN1 as RS232 for the same modem communication port.

If the ACC is connected over a modem and has to be replaced by an ACC-G2 the FLN 1 port has to be used.

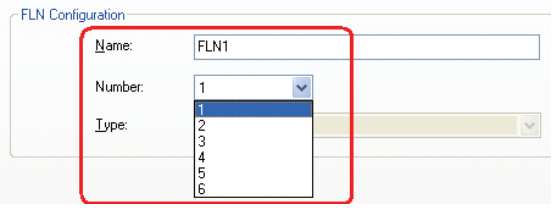
If the FLN 1 port is used and another FLN port is available, the below steps have to be performed.

If there are no free available FLN ports a single ACC-G2 cannot be use to replace the ACC. Please contact in this case your Technical Competence Center.

Following steps show how to move FLN 1 components to another available FLN:

MP2.6 or higher:

1. ACC type have to be changed to ACC-G2 (with help of the SiPass components screen)
2. Navigate to the FLN 1 and assign another free FLN

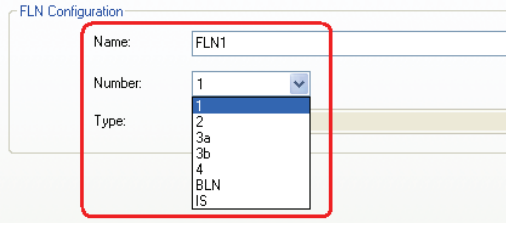


Advice: Don’t forget to rename the FLN to keep the overview

3. Download current ACC-G2 firmware, the ACC-G2 is delivered with MP2.4 compatible firmware and have to be updated if connected to MP2.6 or higher.
4. Initialize the new ACC-G2.
5. Connect the FLN 1 bus to the new assigned FLN bus.
6. Now the FLN 1 bus can be used for Modem connection.

MP2.4 and 2.5:

1. Navigate to the FLN 1 and assign another free FLN.



Advice: Don't forget to rename the FLN to keep the overview.
Following the Port assignment:

ACC		ACC-G2
FLN 1	=>	FLN 1
FLN 2	=>	FLN 2
FLN 3a	=>	FLN 3
FLN 3b	=>	not available
FLN 4	=>	FLN 4
BLN	=>	FLN 5
ISa/b	=>	FLN 6

2. Initialize the ACC-G2
3. Connect the FLN 1 bus to the new assigned FLN bus.
4. Now the FLN 1 bus can be used for Modem connection.

3.4 Dialing Modem and Sintony in use

This use case is described in sections 3.2 Sintony connected to ISa/b port and 3.3 Dialing Modem connected to ACC.

3.5 HLI connected to ISa/b FLN

This use case covers any 3rd party application connected to the ACC ISa/b port.

This can be the HLI elevator or the messages forwarding options. See 3.2 Sintony connected to ISa/b port getting the necessary steps to perform.

3.6 All 7 FLN connection ports used

If any of the 7 FLN connection ports are in use the ACC-G2 can not be used to replace an ACC one by one. Please contact your local TCC team to work out a solution.

3.7 All 7 FLN plus dialing modem

If all of the 7 FLN connection ports are in use plus a dialing modem connection the ACC-G2 can not be used to replace an ACC one by one. Please contact your TCC to work out a solution.

4 Summary

There are some use cases where it is not possible to use as single ACC-G2 as replacement for an existing ACC.

If you face such a case please contact your Technical Competence Center to work out an ACC replacement solution for your customer.

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