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# User Manual

Revision 1.000 English

# IEC61850 Client / BACnet Slave - Converter

(Order Code: HD67767-IP-A1, HD67767-MSTP-A1)

for Website information:

http://www.adfweb.com/?Product=HD67767

for Price information:

http://www.adfweb.com/?Price=HD67767-IP-A1 http://www.adfweb.com/?Price=HD67767-MSTP-A1

### **Benefits and Main Features:**

- Triple electrical isolation
- Two Ethernet ports
- Temperature range: -40°C/+85°C (-40°F/+185°F)



**User Manual** 





For others IEC61850 Client devices, see also the following links:

#### IEC61850 Client from/to ...

www.adfweb.com?Product=HD67D34 www.adfweb.com?Product=HD67E14 www.adfweb.com?Product=HD67765 www.adfweb.com?Product=HD67766 www.adfweb.com?Product=HD67768 www.adfweb.com?Product=HD67769 www.adfweb.com?Product=HD67770 www.adfweb.com?Product=HD67771 www.adfweb.com?Product=HD67772 www.adfweb.com?Product=HD67773 www.adfweb.com?Product=HD67774 www.adfweb.com?Product=HD67775 www.adfweb.com?Product=HD67776 www.adfweb.com?Product=HD67777 www.adfweb.com?Product=HD67778 www.adfweb.com?Product=HD67779 www.adfweb.com?Product=HD67780 www.adfweb.com?Product=HD67781

(LoRaWAN) (EtherCAT) (Modbus Slave) (Modbus TCP Slave) (CAN) (CANopen) (DeviceNet Slave) (EtherNet/IP Slave) (J1939) (KNX) (MQTT) (NMEA0183) (NMEA2000) (PROFIBUS) (PROFINET) (SNMP Agent) (Serial) (Ethernet)

Do you have an your customer protocol?

See the following links:

www.adfweb.com?Product=HD67003

INFO: www.adfweb.com

Do you need to choose a device? do you want help?

Ask it to the following link: www.adfweb.com?Cmd=helpme



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### **UPDATED DOCUMENTATION:**

Dear customer, we thank you for your attention and we remind you that you need to check that the following document is:

- → Updated
- Related to the product you own

To obtain the most recently updated document, note the "document code" that appears at the top right-hand corner of each page of this document.

With this "Document Code" go to web page <a href="www.adfweb.com/download/">www.adfweb.com/download/</a> and search for the corresponding code on the page. Click on the proper "Document Code" and download the updates.

### **REVISION LIST:**

Revision	Date	Author	Chapter	Description
1.000	13/03/2020	VDB	All	First release version

#### **WARNING:**

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ADFweb.com is not responsible for any error this manual may contain.

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#### **SECURITY ALERT:**

#### **GENERAL INFORMATION**

To ensure safe operation, the device must be operated according to the instructions in the manual. When using the device, legal and safety regulation are required for each individual application. The same applies also when using accessories.

#### **INTENDED USE**

Machines and systems must be designed so the faulty conditions do not lead to a dangerous situation for the operator (i.e. independent limit switches, mechanical interlocks, etc.).

# **QUALIFIED PERSONNEL**

The device can be used only by qualified personnel, strictly in accordance with the specifications.

Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

### RESIDUAL RISKS

The device is state-of-the-art and is safe. The instruments can represent a potential hazard if they are inappropriately installed and operated by untrained personnel. These instructions refer to residual risks with the following symbol:



This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

### **CE** CONFORMITY

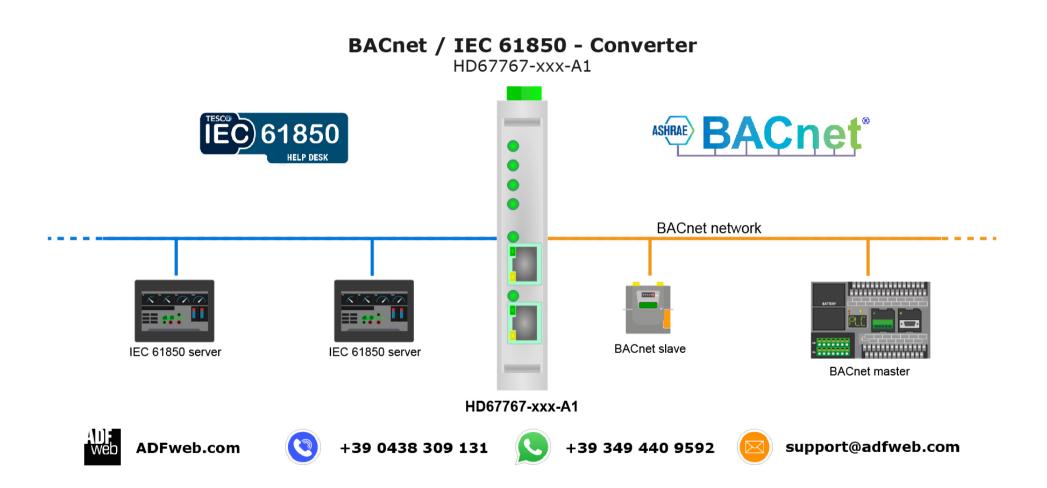
The declaration is made by our company. You can send an email to <a href="mailto:support@adfweb.com">support@adfweb.com</a> or give us a call if you need it.



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### **EXAMPLE OF CONNECTION:**



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### **CONNECTION SCHEME:**

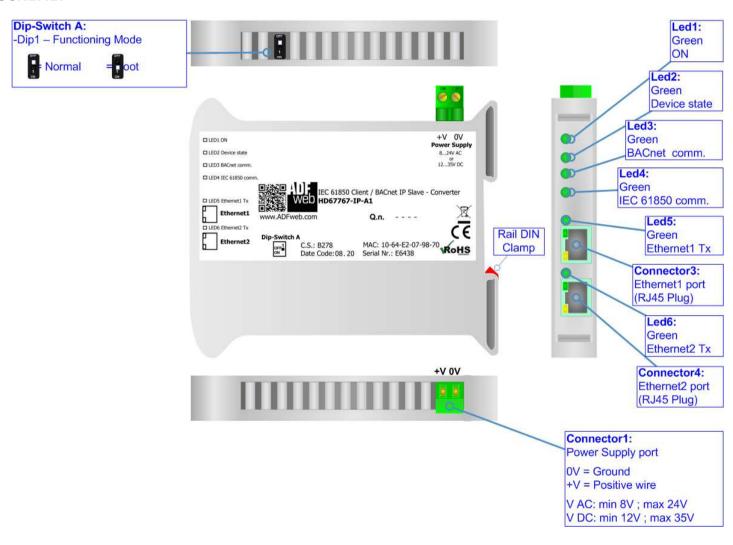


Figure 1a: Connection scheme for HD67767-IP-A1

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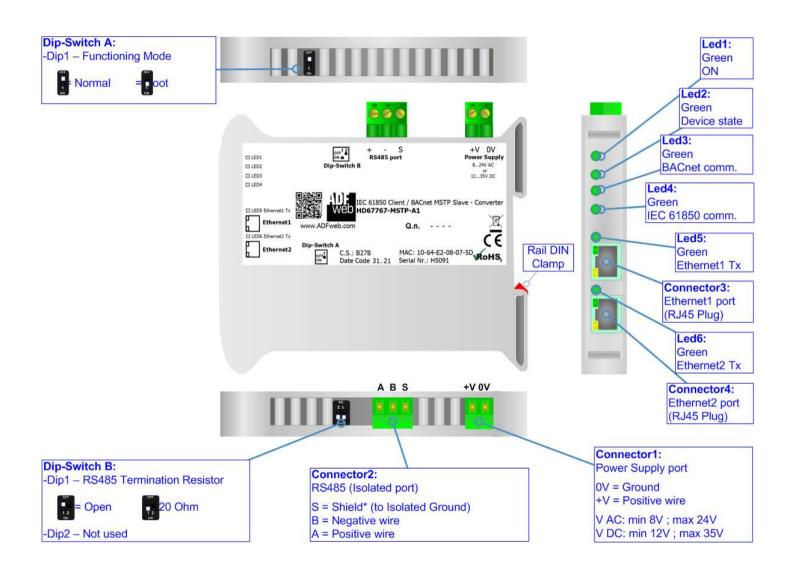


Figure 1b: Connection scheme for HD67767-MSTP-A1

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### **CHARACTERISTICS:**

The HD67767-A1 is a IEC61850 Client / BACnet Slave converter.

It allows the following characteristics:

- → Two-directional information between BACnet and IEC61850;
- → Mountable on 35mm Rail DIN;
- → Wide power supply input range: 8...24V AC or 12...35V DC;
- → Wide temperature range: -40°C / 85°C [-40°F / +185°F].

### **CONFIGURATION:**

You need Compositor SW67767 software on your PC in order to perform the following:

- Define the parameters of the IEC61850;
- Define the parameters of the BACnet;
- → Define IEC61850 variables to be read by the BACnet master;
- ▶ Define IEC61850 variables to be written by the BACnet master;
- → Define the list of BACnet objects accessible by the external BACnet Master;
- Update the device.

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### **POWER SUPPLY:**

Connector1: Power Supply port

0V = Ground +V = Positive wire

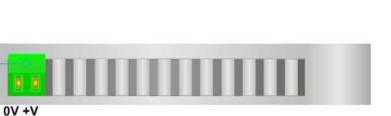
V AC: min 8V; max 24V V DC: min 12V; max 35V

The devices can be powered between a wide range of tensions. For more details see the two tables below.

	VAC ~		VDC	
	Vmin	Vmax	Vmin	Vmax
HD67767-xxxx-A1	<b>8V</b>	24V	12V	35V

Consumption at 24V DC:

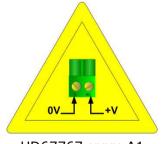
Device	W/VA
HD67767-xxxx-A1	4





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**Caution: Not reverse the polarity power** 



HD67767-xxxx-A1

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### **FUNCTION MODES:**

The device has got two functions mode depending of the position of the Dip1 of 'Dip-Switch A':

- ▶ The first, with Dip1 in Off position (factory setting), is used for the normal working of the device.
- → The second, with Dip1 in On position, is used for upload the Project/Firmware.

For the operations to follow for the updating (see 'UPDATE DEVICE' section).

According to the functioning mode, the LEDs will have specifics functions (see 'LEDS' section).



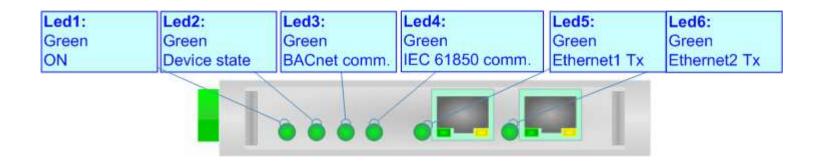
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### LEDS:

The device has got six LEDs that are used to give information of the functioning status. The various meanings of the LEDs are described in the table below.

LED	Normal Mode	Boot Mode
1: ON [supply voltage]	ON: Device powered	ON: Device powered
(green)	OFF: Device not powered	OFF: Device not powered
2: Device State (green)	Plinks slowly (1Hz)	Blinks quickly: Boot state
	Blinks slowly (~1Hz)	Blinks very slowly (~0.5Hz): update in progress
3: BACnet comm. (green)	The blinder where DACreat communication is worning	Blinks quickly: Boot state
	It blinks when BACnet communication is running	Blinks very slowly (~0.5Hz): update in progress
4. IEC(1050 comm (avan)	It blinks when a IEC 61850 response is received	Blinks quickly: Boot state
4: IEC61850 comm. (green)	It billiks when a fec 61650 response is received	Blinks very slowly (~0.5Hz): update in progress
5: Ethernet1 Tx (green)	Plinks when is transmitting Ethernet frames	Blinks quickly: Boot state
	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress
6: Ethernet2 Tx (green)	Plinks when is transmitting Ethernet frames	Blinks quickly: Boot state
	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress

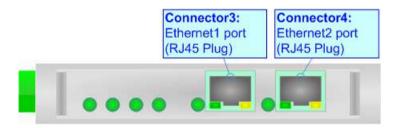


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### **ETHERNET:**

The Ethernet connection must be made using Connector3 or Connector4 of HD67767-xxxx-A1 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch is recommended the use of a straight cable, to connect the device to a PC/PLC/other is recommended the use of a cross cable.

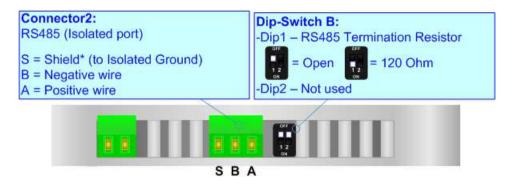


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# RS485 (for BACnet MS/TP):

To terminate the RS485 line with a  $120\Omega$  resistor it is necessary to put ON dip 1, like in figure.



The maximum length of the cable should be 1200m (4000 feet).

Here some codes of cables:

- ▶ Belden: p/n 8132 2x 28AWG stranded twisted pairs conductor + foil shield + braid shield;
- ▶ Belden: p/n 82842 2x 24AWG stranded twisted pairs conductor + foil shield + braid shield;
- ▼ Tasker: p/n C521 1x 24AWG twisted pair conductor + foil shield + braid shield;
- ▼ Tasker: p/n C522 2x 24AWG twisted pairs conductor + foil

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### **USE OF COMPOSITOR SW67767:**

To configure the Converter, use the available software that runs with Windows called SW67767. It is downloadable on the site <a href="https://www.adfweb.com">www.adfweb.com</a> and its operation is described in this document. (This manual is referenced to the last version of the software present on our web site). The software works with MSWindows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the SW67767, the window below appears (Fig. 2).



### Note:

It is necessary to have installed .Net Framework 4.



Figure 2: Main window for SW67767

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### **NEW CONFIGURATION / OPEN CONFIGURATION:**

The "New Configuration" button creates the folder which contains the entire device's configuration.



A device's configuration can also be imported or exported:

- ▼ To clone the configurations of a programmable "IEC61850 Client / BACnet Slave Converter" in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- → To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button "Open Configuration".

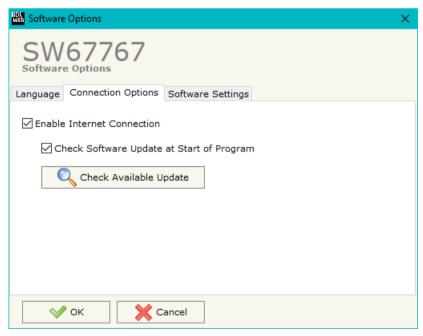


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### **SOFTWARE OPTIONS:**

By pressing the "**Settings**" ( ) button there is the possibility to change the language of the software and check the updatings for the compositor.

In the section "Language" it is possible to change the language of the software.





In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website.

Checking the option "Check Software Update at Start of Program" the

Checking the option "Check Software Update at Start of Program", the SW67767 check automatically if there are updatings when it is launched.

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In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.

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#### **SET COMMUNICATION:**

This section define the fundamental communication parameters of two buses, IEC61850 and BACnet.

By Pressing the "**Set Communication**" button from the main window for SW67767 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "IEC61850 Client" are:

- In the fields "IP Address" the IP address for IEC61850 side of the converter is defined;
- → In the fields "SubNet Mask" the SubNet Mask for IEC61850 side of the converter is defined;
- → In the fields "Gateway" the default gateway of the net is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;
- → In the field "VLAN" the identifier for the VLAN is defined;
- ▶ In the field "Application ID" the Goose identification string is defined.

In the section "BACnet Master" it is possible to select the type of BACnet to use from:

- BACnet/IP (it uses Ethernet);
- → BACnet MS/TP (it uses RS485).

If selected "BACnet/IP" the means of the fields for "BACnet" are:

- ▼ In the fields "IP ADDRESS" the IP address of BACnet/IP side of the converter is defined;
- ▼ In the fields "SUBNET Mask" the SubNet Mask of BACnet/IP side of the converter is defined;
- → In the fields "GATEWAY" the default gateway of the network is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;

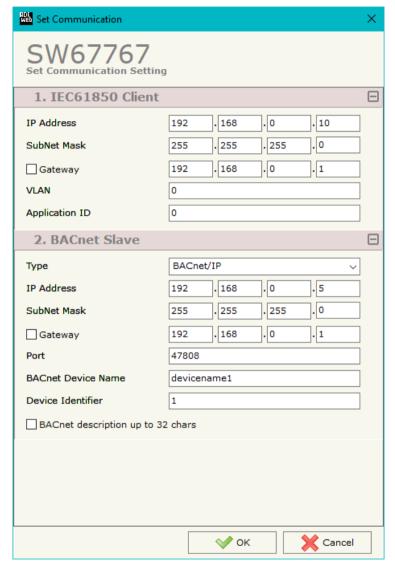


Figure 3: "Set Communication" window



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- → In the field "Port" the port used for BACnet communication is defined. The default port used for BACnet communication is 47808, but is possible to insert any value;
- ▶ In the field "BACnet Device Name" the name of BACnet/IP side of the converter is defined;
- ▶ In the field "Device Identifier" the device instance of BACnet/IP side of the converter is defined;
- ▶ If the field "BACnet description up to 32 chars" is checked, the description of the BACnet objects can be up to 32 chars.

If selected "BACnet MS/TP" the means of the fields for "BACnet" are:

- ▶ In the field "Baudrate" the baudrate of BACnet MS/TP side of the converter is defined;
- In the field "Parity" the parity of BACnet MS/TP side of the converter is defined;
- ▶ In the field "BACnet Device Name" the name of BACnet MS/TP side of the converter is defined;
- ▶ In the field "MAC Address" the MAC of BACnet MS/TP side of the converter is defined;
- ★ The field "Max Masters" specifies the highest allowable address for master nodes. The value shall be less than or equal to 127;
- ★ The field "Max Info Frames" specifies the maximum number of information frames the node may send before it must pass the token;
- ▶ In the field "Device Istance" it is possible to assign a number to the BACnet node (used for the Device Istance);
- ▼ In the field "Network" the BACnet MS/TP network number is defined;
- **▼** If the field "BACnet description up to 32 chars" is checked, the description of the BACnet objects can be up to 32 chars.

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### **IEC61850 ACCESS:**

By Pressing the "IEC61850 Access" button from the main window for SW67767 (Fig. 2) the window "IEC61850 Client Set Access" appears (Fig. 4).

This section is used to define the list of IEC61850 variables from/to which take/map the data of BACnet.

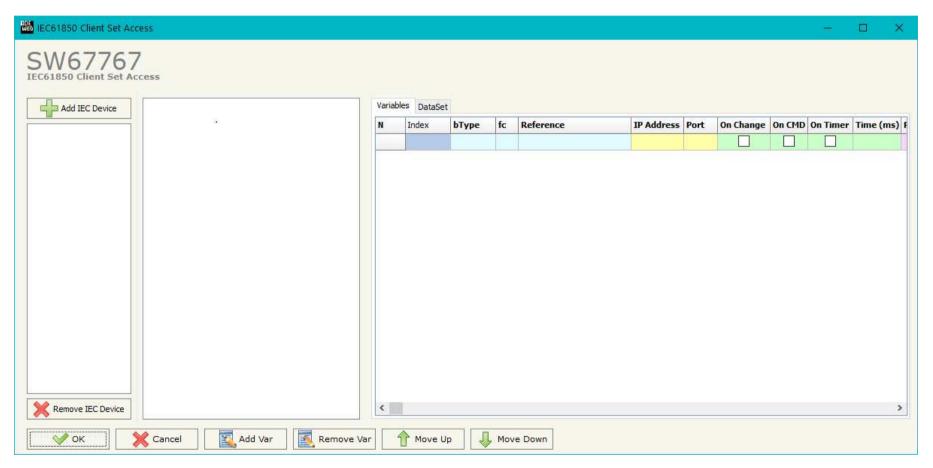


Figure 4: "IEC61850 Client Set Access" window

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By clicking on "ADD IEC Device", it is possible to add a new IEC61850 Server. A SCL file has to be selected (the allowed extensions are .scd, .sed, .icd, .iid or .cid). The functional structure of the Server (Logical Devices, Logical Nodes, Data Objects and Data Attributes) will be visible (Fig. 5). The last leaves in the branches of the structure are the variables which can be added to the "Variables" section on the right (Fig. 6).

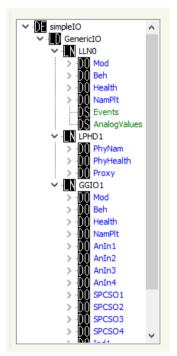


Figure 5: functional structure

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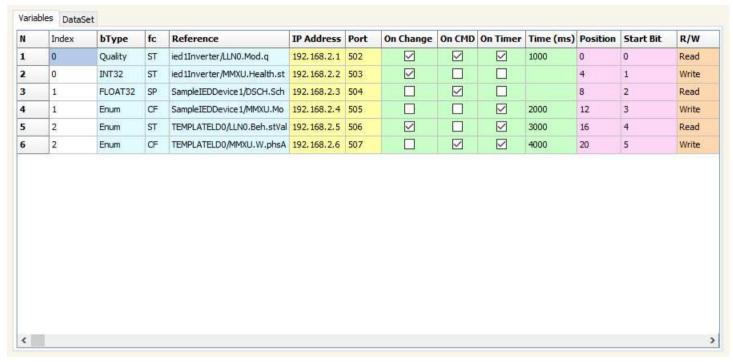


Figure 6: "Variables" section

# The meanings of the fields are:

- → In the field "Index" the index of the server to which the IEC61850 variable belongs is defined;
- → In the field "bType" the data format of the IEC61850 variable is defined;
- ♣ In the field "fc" the Functional Constraint of the IEC61850 variable is defined;
- ▶ In the field "Reference" the path of the IEC61850 variable is defined;
- ▶ In the field "IP Address" the IP Address of the server to which the IEC61850 variable belongs is defined;
- ▶ In the field "Port" the Port of the server to which the IEC61850 variable belongs is defined;
- ▶ If the field "On Change" is checked, the IEC61850 variable is sent when the data on BACnet changes the value (only in write);
- ★ If the field "On CMD" is checked, the IEC61850 variable is sent when a BACnet request is received (only in write);



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- ▶ In the field "Time (ms)" the delay in ms between two readings/writings of the variable is defined (if "On Timer" is checked);
- ▶ In the field "Position" the starting byte of the internal memory arrays where saving/getting the value is defined;
- ▶ In the field "Start Bit" the starting bit of the byte of the field "Position" is defined (only for BOOLEAN data);
- → In the field "Conversion" the type of conversion of the value is defined (only for FLOAT32/FLOAT64 data);
- ▶ In the field "Molt Fact" the multiplication factor for the conversion is defined (if "Conversion" is defined as "ItoF/FtoI");
- ▶ In the field "Mnemonic" a description of the variable is defined.



#### Note:

Not all variables can be written. It depends on their Functional Constraints (fc).

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If they are available in the functional structure, it is also possible to add Datasets (DS) to "DataSet" section (Fig. 7).

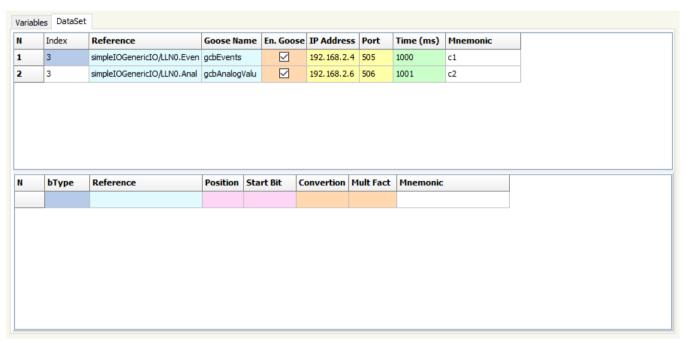


Figure 7: "DataSet" section

In the upper part, there are all the inserted Datasets. The meanings of the fields are:

- → In the field "Index" the index of the server to which the IEC61850 Dataset belongs is defined;
- ▶ In the field "Reference" the path of the IEC61850 Dataset is defined;
- ▶ In the field "Goose Name" the Goose Name of the IEC61850 Dataset is defined (if "En. Goose" is checked);
- ▶ In the field "IP Address" the IP Address of the server to which the Dataset belongs is defined (if "En. Goose" is unchecked);
- ▶ In the field "Port" the Port of the server to which the Dataset belongs is defined (if "En. Goose" is unchecked);
- ▼ In the field "Time (ms)" the delay in ms between two readings of the Dataset is defined (if "En. Goose" is unchecked);
- ▶ In the field "Mnemonic" a description of the Dataset is defined.



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In the lower part, it is possible to see the variables which belong to the selected Dataset. The meanings of the fields are:

- ▼ In the field "bType" the data format of the IEC61850 variable is defined;
- ▶ In the field "Reference" the path of the IEC61850 variable is defined;
- ▶ In the field "Position" the starting byte of the internal memory arrays where saving/getting the value is defined;
- ▶ In the field "Start Bit" the starting bit of the byte of the field "Position" is defined (only for BOOLEAN data);
- ▶ In the field "Conversion" the type of conversion of the value is defined (only for FLOAT32/FLOAT64 data);
- ▶ In the field "Molt Fact" the multiplication factor for the conversion is defined (if "Conversion" is defined as "ItoF/FtoI");
- ▶ In the field "Mnemonic" a description of the variable is defined.



#### Note:

The variables of a IEC61850 Dataset can only be read.

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### **SET BACNET ACCESS:**

By Pressing the "Set BACnet Access" button from the main window for SW67767 (Fig. 2) the window "BACnet Set Access" appears (Fig. 8).

The window is divided in two parts, the "BACnet in Read" that contains the BACnet objects readable by a BACnet Master (LoRaWAN Uplink); and "BACnet in Write" that contains the BACnet objects writeable by a BACnet Master (LoRaWAN Downlink).

The meaning of the fields in the window are the follows:

- → In the field "Data Type" is possible to select the BACnet object data type;
- → In the field "Eng. Unit", with double click the window "Select the BACnet Engineering Unit" appears (Fig. 8);
- → In the field "Position" is possible to select the position where take/save the data from internal memory array;
- The field "Start Bit" is used for the "Binary In" and "Binary Out" BACnet objects;
- → The field "Length" is used for all the others BACnet objects;
- → In the field "Mnemonic" a description of the object is defined.

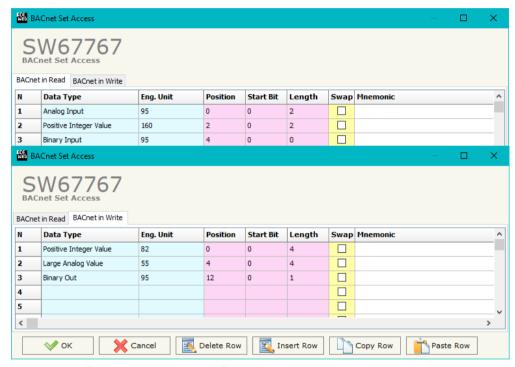


Figure 8: "BACnet Set Access" window

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It is possible to insert directly the Unit (using its unique number) by compiling the "Selected BACnet Engineering Unit" field; or by selecting with the fields "Select the Type" and "Select unit" the Type/Unit desired. If the second way is used, is necessary to press the "Select Engineering Unit" button for confirm the choice.

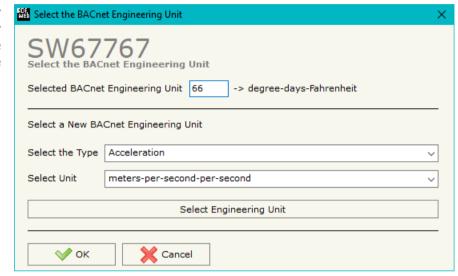


Figure 9: "Select the BACnet Engineering Unit" window

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### **UPDATE DEVICE:**

By pressing the "**Update Device**" button, it is possible to load the created Configuration into the device; and also the Firmware, if necessary. This by using the Ethernet port.

If you don't know the actual IP address of the device you have to use this procedure:

- Turn OFF the Device;
- → Put Dip1 of 'Dip-Switch A' in ON position;
- Turn ON the device
- Connect the Ethernet cable;
- Insert the IP "192.168.2.205";
- Select which operations you want to do;
- Press the "Execute update firmware" button to start the upload;
- When all the operations are "OK" turn OFF the Device;
- → Put Dip1 of 'Dip-Switch A' in OFF position;
- Turn ON the device.

If you know the actual IP address of the device, you have to use this procedure:

- Turn ON the Device with the Ethernet cable inserted;
- Insert the actual IP of the Converter;
- Select which operations you want to do;
- Press the "Execute update firmware" button to start the upload;
- ♦ When all the operations are "OK" the device automatically goes at Normal Mode.

At this point the configuration/firmware on the device is correctly updated.

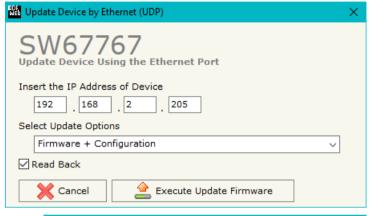




Figure 10: "Update device" windows

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### Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67767 device.

### Warning:

If Fig. 11 appears when you try to do the Update try these points before seeking assistance:

- Check if the serial cable is connected between the PC and the device;
- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- Check the LAN settings;
- ▼ If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- ▼ If you are using Windows Seven, Vista, 8 or 10 make sure that you have the administrator privileges;
- ▼ In case you have to program more than one device, using the "UDP Update", you have to cancel the ARP table every time you connect a new device on Ethernet. For do this you have to launch the "Command Prompt" and write the command "arp d". Pay attention that with Windows Vista, Seven, 8, 10 you have to launch the "Command Prompt" with Administrator Rights;
- → Pay attention at Firewall lock.





Figure 11: "Error" window



#### Warning:

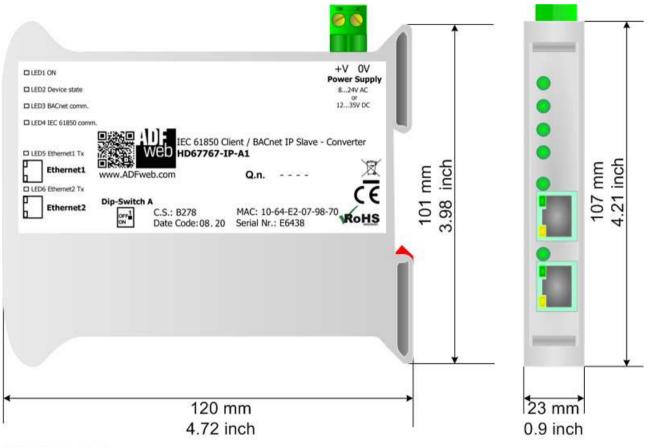
In the case of HD67767 you have to use the software "SW67767": <a href="www.adfweb.com\download\filefold\SW67767.zip">www.adfweb.com\download\filefold\SW67767.zip</a>.

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### **MECHANICAL DIMENSIONS:**



Housing: PVC

Weight: 200g (Approx)

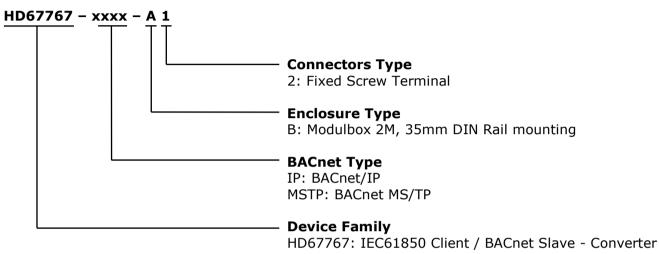
Figure 12: Mechanical dimensions scheme for HD67767-xxx-A1

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### **ORDERING INFORMATIONS:**

The ordering part number is formed by a valid combination of the following:



Order Code: **HD67767-IP-A1** - IEC61850 Client / BACnet/IP Slave – Converter

Order Code: **HD67767-MSTP-A1** - IEC61850 Client / BACnet MS/TP Slave – Converter

### **ACCESSORIES:**

Order Code: **AC34011** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V DC

Order Code: **AC34012** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 24 V DC

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### **DISCLAIMER:**

All technical content within this document can be modified without notice. The content of the document is a under continual renewal. For losses due to fire, earthquake, third party access or other accidents, or intentional or accidental abuse, misuse, or use under abnormal conditions repairs are charged to the user. ADFweb.com S.r.l. will not be liable for accidental loss of use or inability to use this product, such as loss of business income. ADFweb.com S.r.l. shall not be liable for consequences of improper use.

#### OTHER REGULATIONS AND STANDARDS:

#### **WEEE INFORMATION**

Disposal of old electrical and electronic equipment (as in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product may not be treated as household rubbish. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. If the product is disposed correctly, you will help prevent potential negative environmental factors and impact of human health, which could otherwise be caused by inappropriate disposal. The recycling of materials will help to conserve natural resources. For more information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

#### RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE



The device respects the 2002/95/EC Directive on the restriction of the use of certain hazardous substances in electrical **RoHS** and electronic equipment (commonly referred to as Restriction of Hazardous Substances Directive or RoHS).

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### **CE MARKING**

The product conforms with the essential requirements of the applicable EC directives.

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### **WARRANTIES AND TECHNICAL SUPPORT:**

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at <a href="www.adfweb.com">www.adfweb.com</a>. Otherwise contact us at the address support@adfweb.com

### **RETURN POLICY:**

If while using your product you have any problem and you wish to exchange or repair it, please do the following:

- → Obtain a Product Return Number (PRN) from our internet support at <a href="https://www.adfweb.com">www.adfweb.com</a>. Together with the request, you need to provide detailed information about the problem.
- → Send the product to the address provided with the PRN, having prepaid the shipping costs (shipment costs billed to us will not be accepted).

If the product is within the warranty of twelve months, it will be repaired or exchanged and returned within three weeks. If the product is no longer under warranty, you will receive a repair estimate.



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