POWER AUTOMATION TECHNOLOGIES

DIGSI 5 QUICK NOTES

DIGSI-5-QN0022: Service and REA browser based interface

All SIPROTEC 5 relay Ethernet interfaces have a browser accessible Service webpage providing status information for that interface.

For relays with version 7.90 Firmware and later, a new browser facility has been added - primarily to offer an alternative and simpler Remote Engineering Access to that of DIGSI 5 software.

The web interface must first be enabled, with read only or read/write access via the DIGIS 5 setting file. The setting file can also be updated to disable the webpage on each Ethernet port if desired. Password protection and Role Based Access can also be applied to the webpage – please refer to version 7.9 of the SIPROTEC 5 Operating Manual for detailed information.

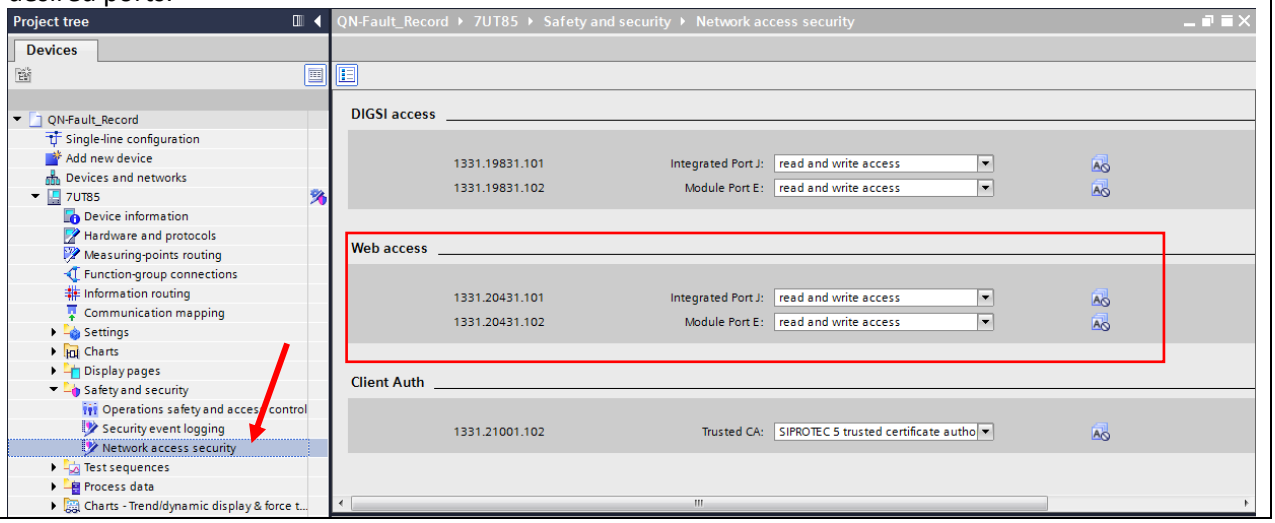
The new web interface allows a connection to be made to the relay using a normal web browser (Explorer, Chrome, Firefox and others).

Web functions include:

1. Ability to monitor any measured value or status point
2. Ability to read or update any existing setting value
3. Ability to download log files in CSV format
4. Ability to download fault records in COMTRADE format

Item 2 will be of interest to technicians during commissioning, as it allows a setting value to be changed without the need to reload the entire setting file and the restart that normally results.

1	In the setting file, via the “Safety and Security/Network access security” menu, enable web access for desired ports.



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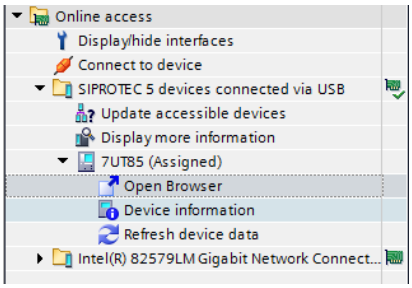
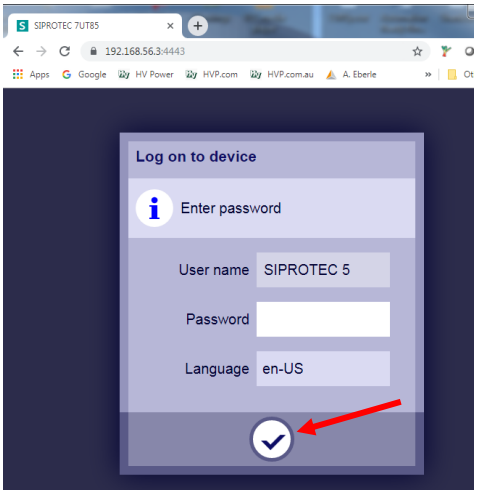
2	DIGSI 5 provides a shortcut to open the Browser from within DIGSI, but the IP address may be typed directly in the Brower (see 2A)  Note that it is actually possible to open the web browsers using the front panel USB connection. As DIGSI 5 uses an IP mechanism over the USB serial port to communicate securely with the relay – this also allows a browser connection. The IP address for the USB port can be found via the relay front panel menu [Test and diagnosis/IP-Configuration/Onboard USB].
2a	Type the IP address and port number into the Brower. Port 4443 is used, and must be appended to the IP address. i.e. 192.168.56.3:4443  The above example does not have role based access enabled, so simply click the tick button for default user “SIPROTEC 5” access – no password is set as default.

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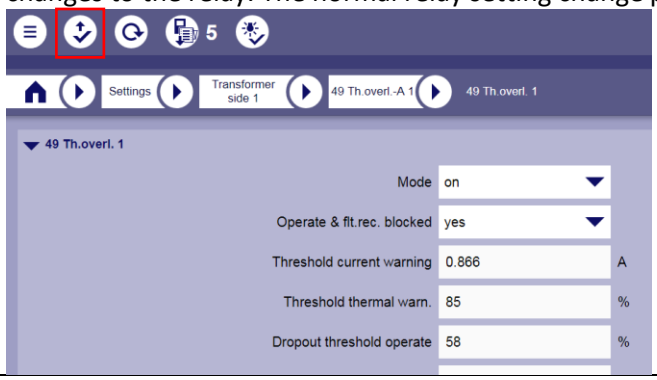
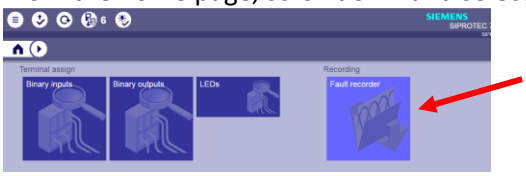
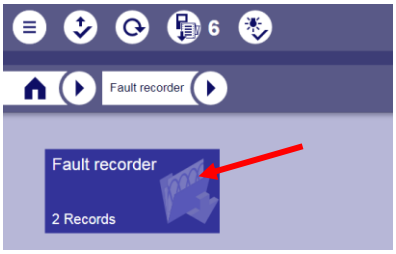
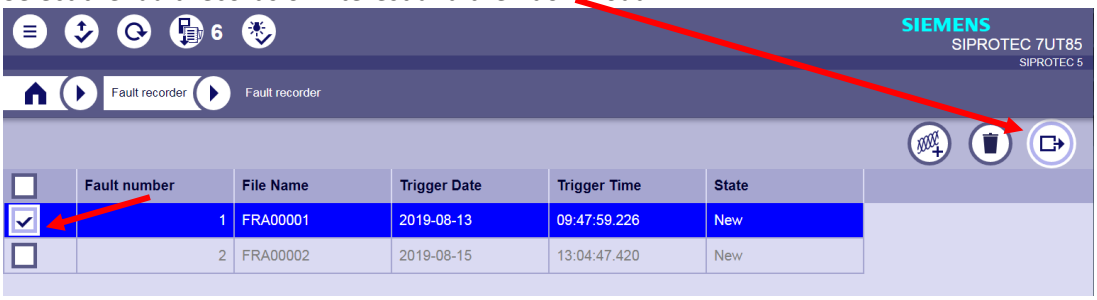
3	**Setting Change example** If you navigate to the Settings section and update a setting, use the Tick-arrow button to load the changes to the relay. The normal relay setting change password is prompted for. 
4	**Download fault recorder** From the home page, scroll down and select the fault recorder graphic  Then click on the Fault recorder icon  Select the fault records of interest and then download  For each fault record a .inf, .dat and .cfg file will be downloaded

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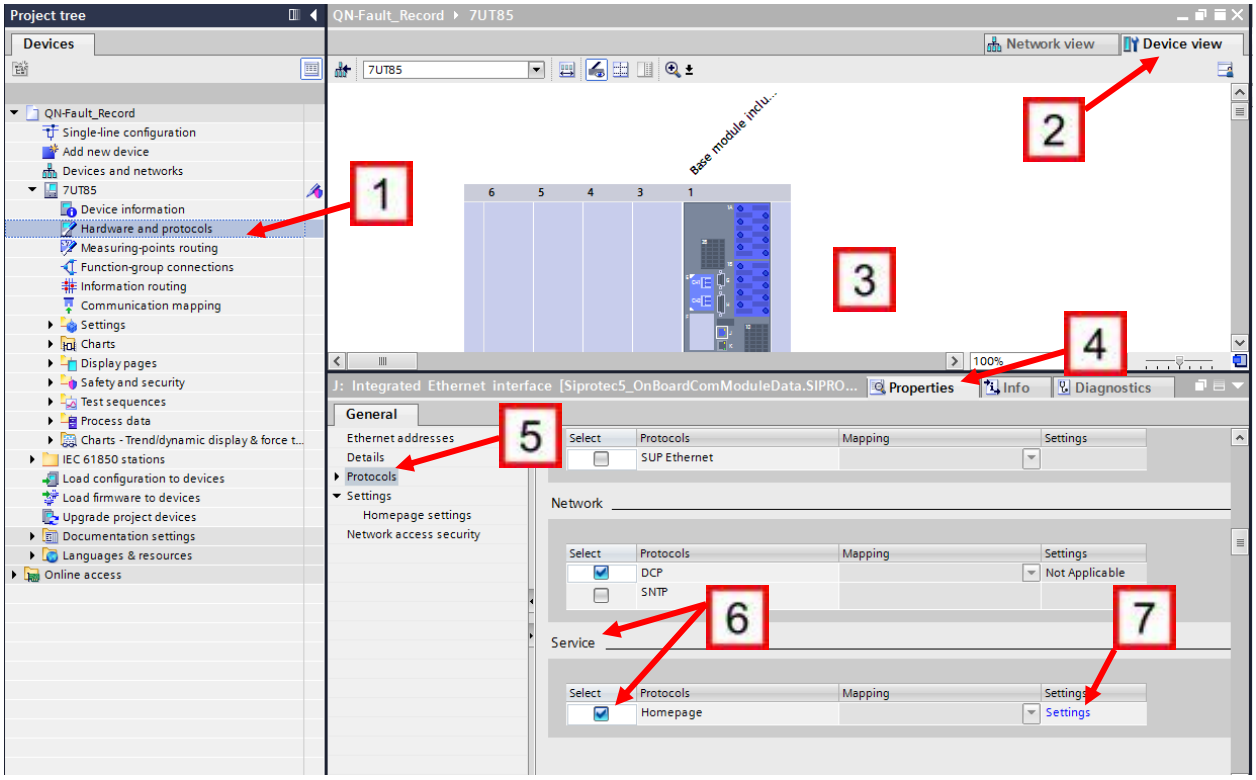
5	**Download fault logs:** From the home page, select the Logs page, and follow the hierarchy to the log of interest. The download button looks the same as that details in section 4

QUICK GUIDE TO: Service webpage

All SIPROTEC 5 relay Ethernet interfaces have a browser accessible **Service** webpage providing detailed status information for that interface – This is available for relays with firmware prior to 7.9.

1 **Enable Service webpage**



Via the Project Tree, select 1 “Hardware and Protocols”, then 2, Device View Tab. 3, the Ethernet interface desired. 4, select Properties.

In the Properties, 5 select Protocols, 6 scroll down the right hand page to find “Service” section and Enable/Select. Note you then need to click on 7, Settings and turn the home page on.

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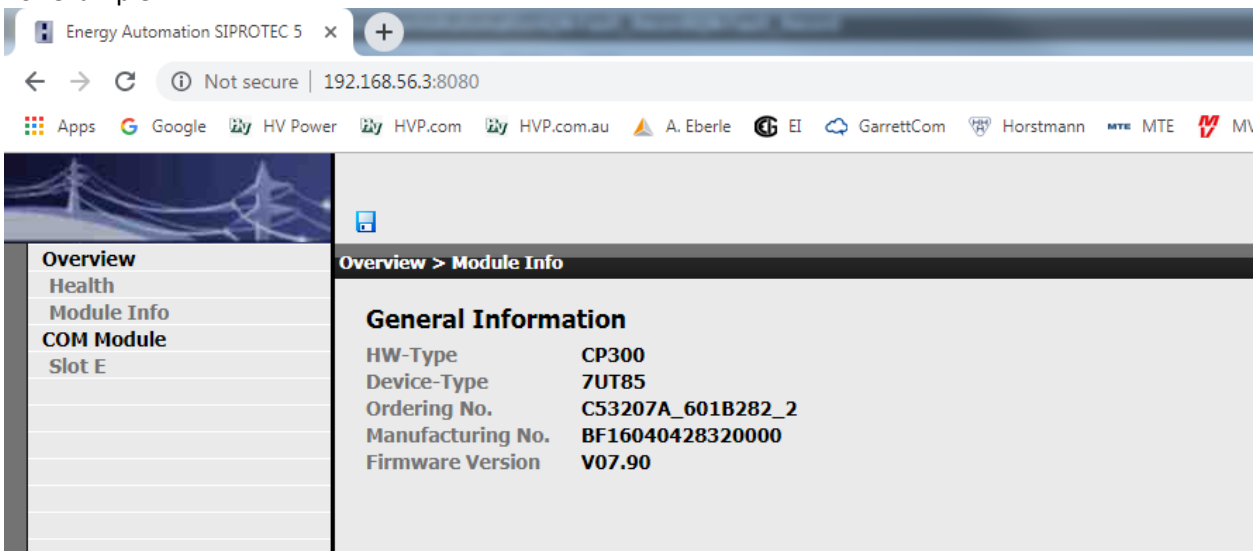
Step 7 – turn the homepage on.

2 Type in your browser the IP address and appropriate port number

- Port J (Standard Copper Ethernet port on all relays) : http://IP:8080
  (where IP = IP address of Port J)
- Port E: http://IP:8081
- Port F: http://IP:8082
- Port N: http://IP:8083
- Port P: http://IP:8084

For example:



The left hand menu provides a variety of pages.

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