

Appendix B (Reminder)

A) Important Notice for PCs using a software firewall

Easergy Studio and our current ranges of Protection relays were designed to be used inside a site's logical security perimeter. Schneider Electric recommends a secure perimeter including such security measures as industrial firewalls. When using Easergy Studio remotely from outside of the site, it is advised to use a secured VPN and/or Jump host. The software firewall and/or anti-virus configuration could potentially interfere with Easergy Studio.

Our commitment to move towards secure communication means that future versions of Easergy studio and device firmware will support secured communication over TLS both internally and remotely from the site, with easily configurable firewall rules.

Description

Easergy Studio uses a fixed port to establish communications with devices, after communication is established, the RPC protocol is used. The RPC Protocol dynamically assigns a port within a fixed range of TCP ports. To ensure proper work of all Easergy Studio functions related ports need to be opened for Easergy Studio.

Applications that can use Ethernet and may need Rules added to firewall.

Beside Easergy Studio some tools in Easergy Studio that can connect with device over Ethernet may need separate Rules added in firewall policy, as per the following list:

- Data Model Manager (DMM),
- PSL Editor (Px40),
- Courier Monitor;
- IED Configurator;
- AE2R,
- GOOSE Editor.

Opening ports in firewall tool (general instruction)

To open ports for application:

- Open Rules window;
- Add new Rule;
- Select application executive file;
- Select TCP protocol;
- Select source IP as Any;
- Select source port as Any;
- Select destination IP as Any;

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- Select destination port as Any;
- Allow communication;
- Save Rule;
- Repeat instructions for UDP protocol.

Above instructions is overall and it may vary or adapted depending on used firewall.

B) Computer characteristics

Minimum and recommended hardware requirements for Easergy Studio (S1 Studio application and other tools included UPCT, P746 RHMI, P740 Topology Tool). Requirements are based on all tools included in current installation package and all its required

Additional components (see list below) as well.

The results are based on MiCOM S1 Studio v5.1.0 requirements.

Minimum Requirements:

Platform	Processor	RAM	HDD ¹	HDD ²
Windows XP x86	1 GHz	512 MB	900 MB	1,5 GB
Windows 7 x86	1 GHz	1 GB	900 MB	1,9 GB
Windows 7 x64	1 GHz	2 GB	900 MB	2,1 GB
Windows Server 2008 x86 Sp1	1 GHz	512 MB	900 MB	1,7 GB

Recommended Requirements:

Platform	Processor	RAM	HDD ¹	HDD ²
Windows XP x86	1 GHz	1 GB	900 MB	1,5 GB
Windows 7 x86	1 GHz	2 GB	900 MB	1,9 GB
Windows 7 x64	1 GHz	4 GB	900 MB	2,1 GB
Windows Server 2008 x86 Sp1	1 GHz	4 GB	900 MB	1,7 GB

¹ OS with Windows Updates updated on 2015/05.

² OS without Windows Updates installed.

Notes:

1. Both configurations do not include Data Models HDD requirements.
2. Screen resolution for minimum requirements: Super VGA (800 x 600).
3. Screen resolution for recommended requirements: XGA (1024x768) and higher.
4. Easergy Studio must be started with Administrator privileges.

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