ENIP Prerequisites

The ENIP Server software is used to create an IP receiver that will act as a gateway between the Enforcer / PCX control panels, and the Alarm Receiving Centre (ARC) monitoring software when they communicate via GPRS, LAN or Wi-Fi.

Server

The software will run on any PC Windows 7 / Server 2012. For testing purposes any PC should suffice. For a working ENIP software solution monitoring up to 10000 connections we would **strongly** recommend that the PC is used for the sole purpose of running the IP Server. If this advice is not followed then this may affect future support from Pyronix.

Recommended Specification Below:

Server requirements

Minimum hardware requirements:
Intel or AMD 2Ghz Processor or greater 2Gb RAM
100Mb Hard Disk Space

Minimum requirement for the operating system:
Microsoft Windows 7 Professional/Ultimate 32 or 64 bit (ask Pyronix for 64 bit support version if required)

NOTE: We do not recommend Windows 8

Optional operating system requirements:
Microsoft SQL Server 2012 or later (this is the full version, and not free)
Microsoft Windows 7 Professional/Ultimate, 64 bit (ask Pyronix for 64 bit version of software if required)
Microsoft Windows Server 2012
4Gb RAM if using 64 bit or Microsoft SQL Server
Suitable backup device i.e. Tape, CD/DVD Writer, USB Drive (This is highly desirable)

Redundancy

We would highly recommend that the ENIP software is installed across two machines by configuring virtualisation software. This will provide a more robust solution in the event that one of the machines has technical issues as the remaining machine will still support the incoming signals. Windows server 2012 has virtualisation built in or there are other 3rd party providers available.

Back-up Power Supply

It would be recommended that the power source that is supplying the ENIP servers is protected by a suitable UPS and backup generator set. Should the power fail without backup, then the alarm signals will not be handled. When specifying the backup source please take in consideration all other ancillary equipment such as modems, routers or switch equipment.

ENIP Prerequisites

Static External IP Address

The location where the server is to be installed will need an external fixed IP address. This needs to be an IP address and not a domain name.

Static Internal Address

The server hosting ENIP must be given an internal static IP address.

Incoming Port Forward

An incoming port forward rule will need to be setup in the router, to allow the incoming signals to be routed to the internal IP address of the server where ENIP Is installed. The Default port that we use is 21000. Please ensure the port forward rule is setup for UDP only. TCP or auto settings won't work.

Microsoft SQL

The ENIP server software utilises Microsoft SQL server for its database. Please ensure a working version is installed on the server PC. Express versions are also acceptable.
It is the operator's responsibility for backing up the database. Please ensure when SQL is installed that the option "Default Instance" is selected.

Automation Server Module

This module enables the connection of the Pyronix ENIP Server to the software used by the monitoring station for managing the alarms. This connection can be either TCP or serial connection. The IP Server can output events to Automation/Central Station management software over a serial port or LAN connection using protocol's such as Surgard MLR2, Surgard MLR2000, Ademco 685.
IMPORTANT – SERIAL CONNECTION MUST BE VIA A FULLY POPULATED LEAD.

Recommendation

We strongly recommend that the PC is used for the sole purpose of running the IP Server.
The IP Server can be run on a virtualised PC (in this instance you could run the software on multiple server hardware to limit the impact of a hardware failure).
If the IP Server PC is behind a router/firewall then port forwarding may be required either on the router or by using port forwarding software.

High Security Mode

For the ENIP server to operate in high security mode, the encryption connection must be sent via an SMS signal to the alarm control panel (GSM/GPRS only). The ENIP software supports Siemens TC35/ MC35 GSM modules.

ENIP Prerequisites

Compliance

IP Protocol: - The European TS IP protocol approved by CENELEC is used for alarm Transmission - CLC/ TS 50131-9: 2013 Part 9.
ATS Security Level: The IP protocol is specified to ATS level SP5. DIGI-GPRS and DIGI- LAN: SP5-ITSEC-01/15
Encryption: All communications are AES 256 encrypted.

Remote Support

To enable remote support / installation Team Viewer is preferred. We also require full administrative rights to the PC.