



Network Integration Engine



- Internet technologies and IT standards
- Advanced user interface accessible via a Web browser
- Dynamic graphical display capabilities
- Embedded configuration tool
- Scalable migration solution for Metasys® N1 networks

The Network Integration Engine (NIE) is a Web-based automation component for integrating building management networks. It provides an innovative migration solution that brings advanced Information Technology (IT) and enterprise level global communication to existing building management systems (BMS). The NIE communicates via IT and Internet protocol to the expanding world of Web-based building management systems. At the same time, it uses Ethernet IP technology to communicate with Metasys N1 and other networks which monitor and supervise heating, ventilation and air conditioning systems (HVAC), third-party equipment and systems, and fire and access systems.

METASYS NIE

Web browser access

System users can access the advanced user interface of the NIE via a standard Web browser installed on a desktop, laptop, or other PC platform. Users can communicate with an NIE or multiple NIEs via corporate Intranet, Internet, or telephone line and have complete access to the BMS, based on authorization level. Metasys software supports industry standard firewall solutions for securing network communication against unauthorized access.

Communication built to IT standards

Data transmission on the network uses standard Web service protocols and formats including Internet Protocol (IP), Hypertext Transfer Protocol (HTTP), Simple Network Time Protocol (SNTP), Simple Mail Transfer Protocol (SMTP), Simple Network Management Protocol (SNMP), Hypertext Markup Language (HTML) and Extensible Markup Language (XML). Multiple options allow you to build an extremely flexible network at the automation and enterprise level.

N1 integration capabilities

The NIE communicates over the Ethernet network with Network Control Modules (NCM) on the N1 network. Since the NIE is configured on the N1 network as an N1 node, all network point data is available to the NIE. The N1 migration process provides access to a wide array of object types and feature configurations.

N1 object import tool and self discovery

The NIE includes object and feature import tools that provide efficient N1 migration in either online or offline modes. The NIE will automatically self-discover NCM controllers and prompt the user for desired point object migration. Alternately, users can launch a tool to read an existing Metasys database and convert it into an XML based data structure. Automatic configuration options are provided for features such as alarm parameter configuration, trend collection configuration, totalization, and time scheduling.

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