

Applications

The G1 EnOcean to LonWorks gateway app is compatible with the G1 MicroRouter hardware. It is used to bridge the convenience of wireless/battery less EnOcean sensors with the robustness of a LonWorks network. The G1 has the power to handle 24 separate EnOcean devices to act as a sensor hub that forwards formatted information to your LonWorks controllers.

A typical application is to use wireless wall-mounted switches in a lighting control application where the lights are controlled by LonWorks devices. LonWorks devices receive the switch commands by the EnOcean wireless link.

Another application example is to use LonWorks devices to control HVAC hardware such as VAVs or Fan Coils and the EnOcean wall-mounted temperature sensors.

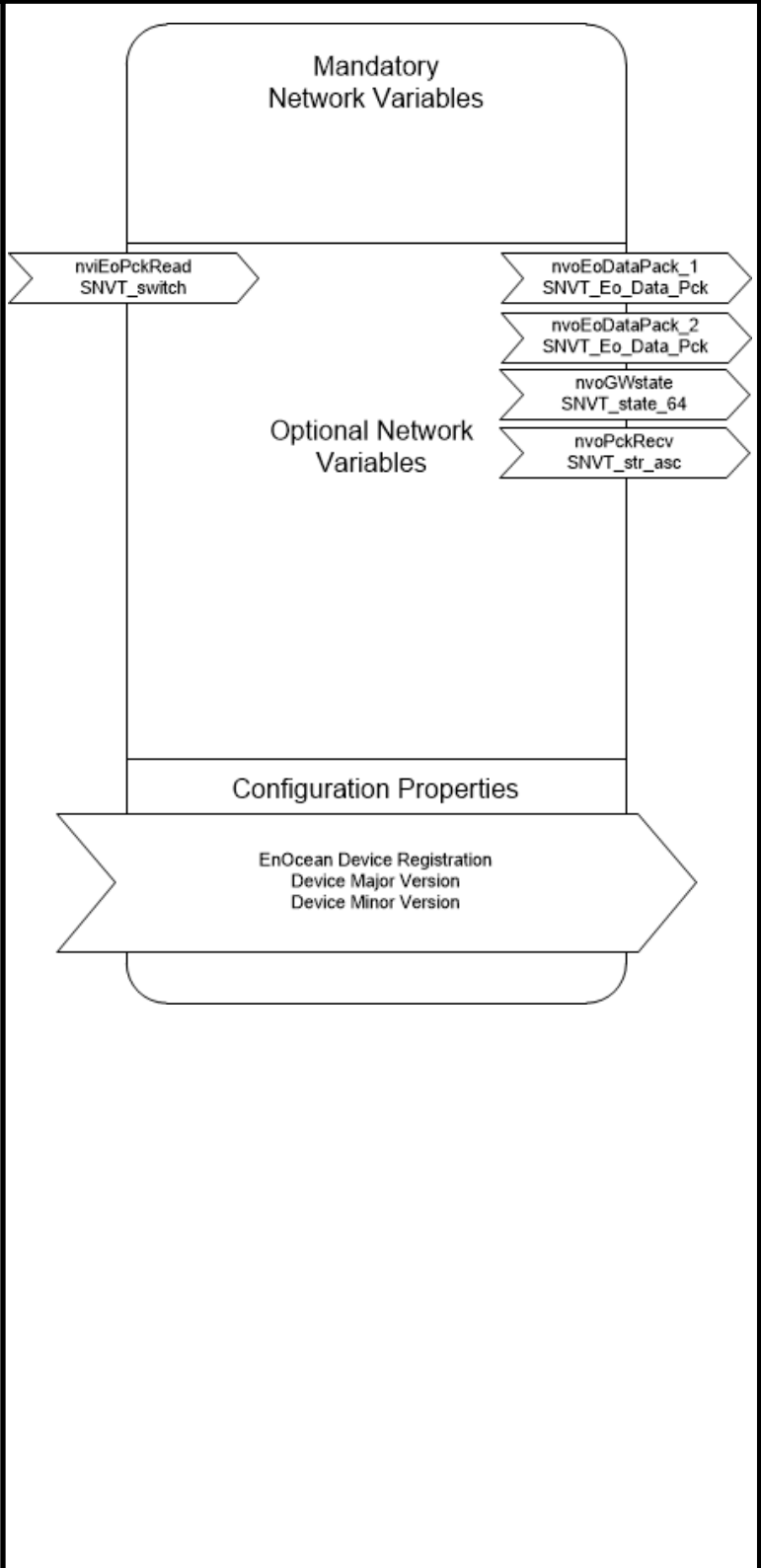
Software

Software features include:

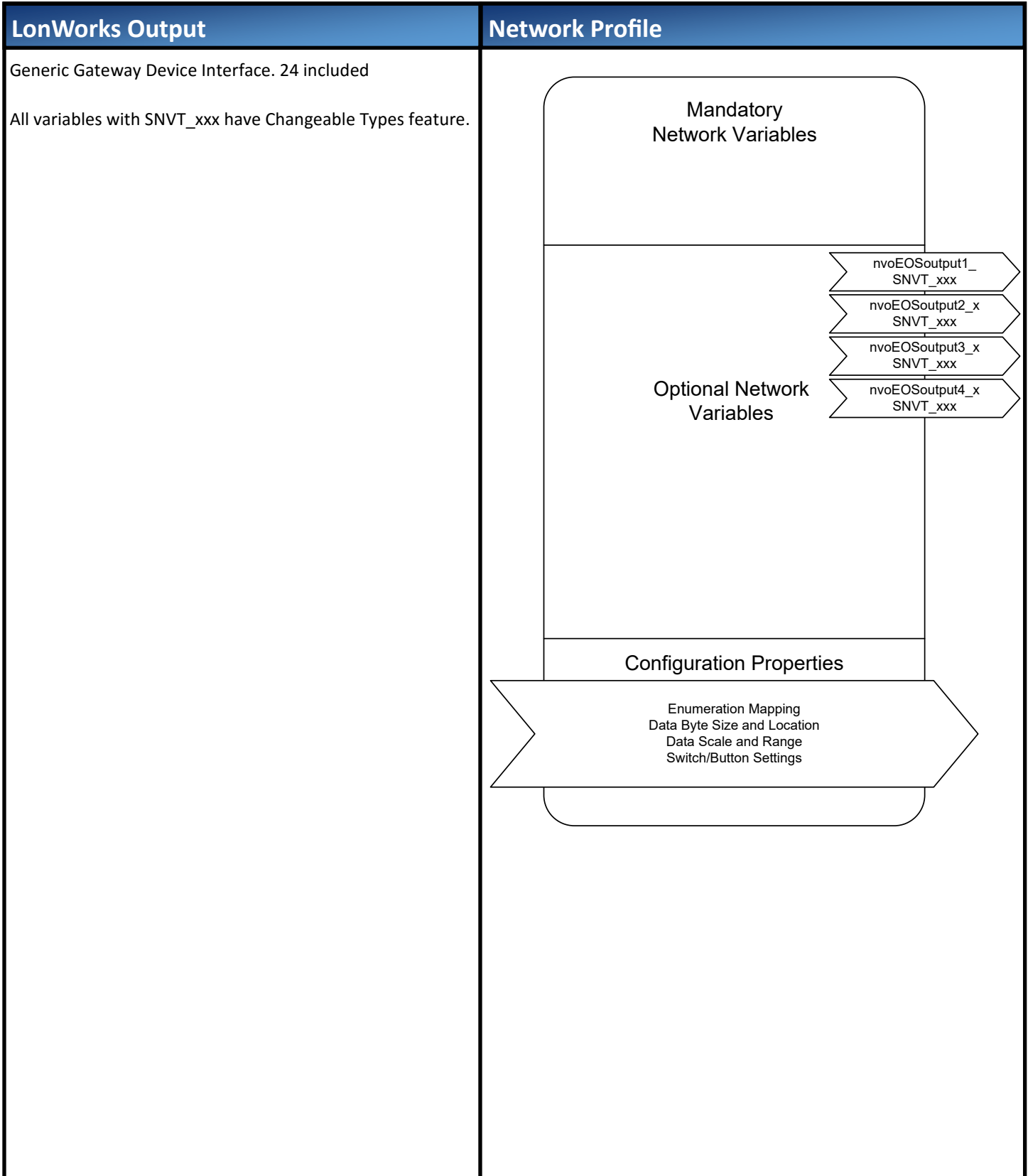
- EnOcean packet monitoring with filtering and teach packet recognition
- Easy single click device registration
- Offline device registration for engineered solutions
- Multiple frequency support
- Device heartbeat support with alarming
- Custom device and variable naming for ease of use and maintenance
- Capacity for custom scale and offset for precision tuning
- Ability to map enumerations to custom SNVT_switch values
- Multiple button configurations per rocker and button available
 - Rocker
 - Toggle
 - Momentary
 - Dimming with custom delay and ramp timing
- Changeable network outputs

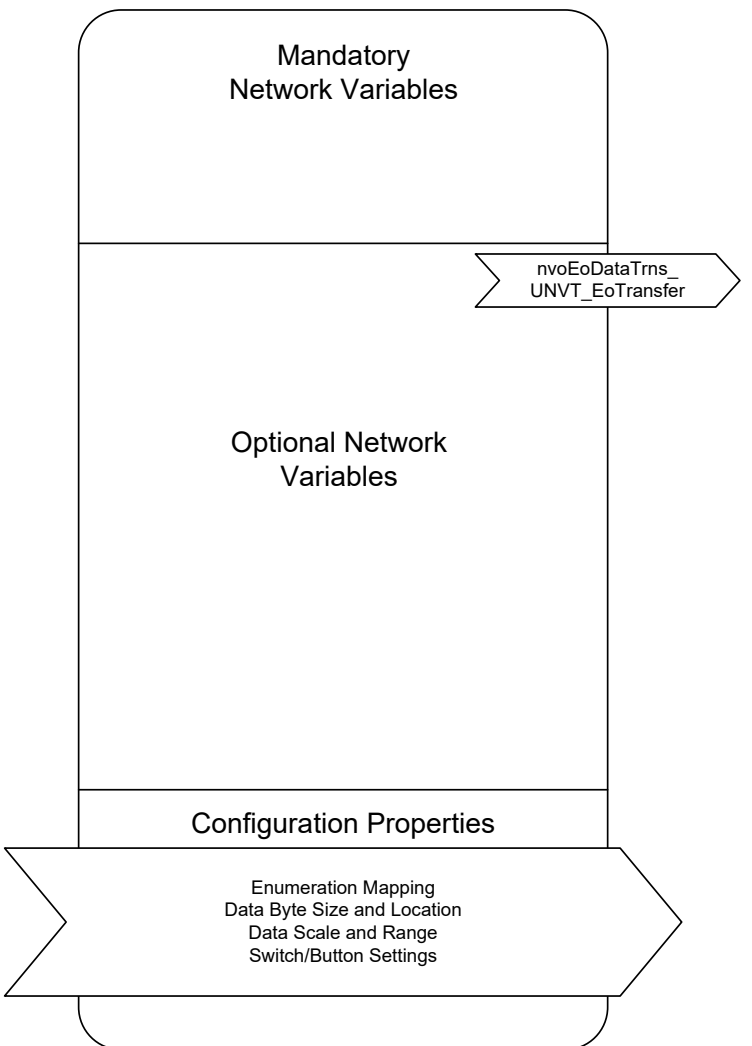
LNS Plug-in provides graphical user interface for configuration and monitoring. Plug-in simplifies hardware I/O customization, communication parameters, control sequences. Plug-in can be executed from-within network management tool such as LonMaker for Windows or similar.

The screenshots show the EnOcean Gateway software interface. The top window displays a list of registered devices with columns for Device Name, Device ID, Heartbeat Alarm, EEP, EEP Function, EEP Type, and Data. Below this is a section for un-registered devices. The middle window shows a configuration screen for a device, with various parameters like Space Temperature, Discharge Temperature, Return Temperature, Room Setpoint Offset, Offset Minimum, Offset Maximum, Space Humidity, Space CO2, Fan Speed, Fan Speed Mapping, Occupancy Sensor, and DO (Digital Output) settings. The bottom window shows a 'Wireless Device Connection' dialog box with a 'Currently Attached Device' section and a 'Refresh Device List' button. The background shows a detailed configuration screen for a functional block (FC-12) with various network variable names and conditioned values.

EnOcean Device Manager	Network Profile
<p>All variables with SNVT_xxx have Changeable Types feature.</p> <p>Supported and tested EnOcean profiles</p> <ul style="list-style-type: none"> • Digital Input Contact <ul style="list-style-type: none"> • D5-00-01 • Temperature Sensors <ul style="list-style-type: none"> • A5-02-05 • A5-02-14 • A5-02-17 • Temperature and Humidity Sensor <ul style="list-style-type: none"> • A5-04-01 • Light Sensors <ul style="list-style-type: none"> • A5-06-01 • A5-06-02 • Occupancy Sensor <ul style="list-style-type: none"> • A5-07-01 • CO2 Sensor <ul style="list-style-type: none"> • A5-09-04 • Room Controllers <ul style="list-style-type: none"> • A5-10-01 • A5-10-03 • A5-10-04 • A5-10-05 • A5-10-07 • A5-10-08 • A5-10-0C • A5-10-10 • A5-10-12 • A5-10-13 • A5-10-19 	 <p>The diagram illustrates the network profile structure. It is divided into three main sections:</p> <ul style="list-style-type: none"> Mandatory Network Variables: A rounded rectangle at the top. Optional Network Variables: A large central area containing several data packets: <ul style="list-style-type: none"> <code>nviEoPckRead</code> (SNVT_switch) - points from Mandatory to Optional. <code>nvoEoDataPack_1</code> (SNVT_Eo_Data_Pck) <code>nvoEoDataPack_2</code> (SNVT_Eo_Data_Pck) <code>nvoGWstate</code> (SNVT_state_64) <code>nvoPckRecv</code> (SNVT_str_asc) Configuration Properties: A large arrow-shaped box at the bottom containing: <ul style="list-style-type: none"> EnOcean Device Registration Device Major Version Device Minor Version





LonWorks Output	Network Profile
<p>Q1 Specific Gateway Device Interface. 8 included</p>	 <p>The diagram illustrates the structure of the network profile. It is divided into three main sections: <ul style="list-style-type: none"> Mandatory Network Variables: The top section, enclosed in a rounded rectangle. Optional Network Variables: The middle section, enclosed in a rectangle. Configuration Properties: The bottom section, enclosed in a rectangle. A data transfer arrow labeled <code>nvoEoDataTrns_UNVT_EoTransfer</code> points from the boundary between Mandatory and Optional Network Variables down to the Configuration Properties section. The Configuration Properties section lists: <ul style="list-style-type: none"> Enumeration Mapping Data Byte Size and Location Data Scale and Range Switch/Button Settings </p>