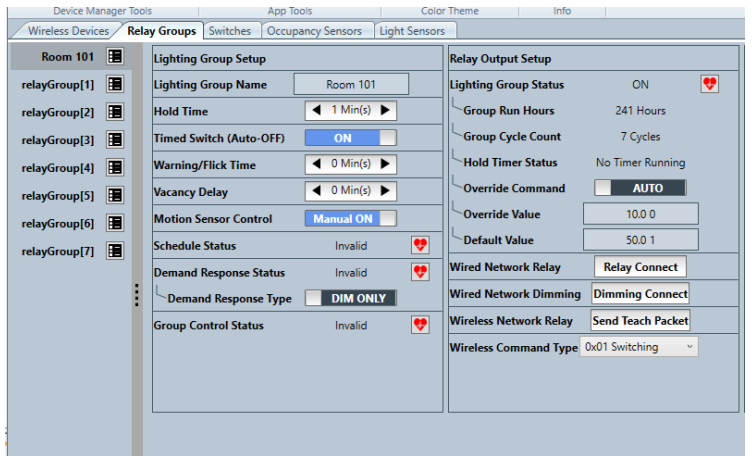


Applications

The G1 EnOcean Lighting app is compatible with the G1 MicroRouter hardware. This app will extend the functionality of the already rich capabilities in the Q1 HVAC line of applications allowing for a seamless connection into lighting control, adding the ability to control up to 8 individual lighting groups. Having the capability of extending spare I/O from HVAC controllers or bringing in new sensors and relays via the EnOcean routing functions, this will make a perfect low cost compliment to an existing or new installation.

Using the Device Manager and InetSupervisor Front-End software to configure and display is a simple and intuitive way to bring lighting and HVAC building control under a single solution.

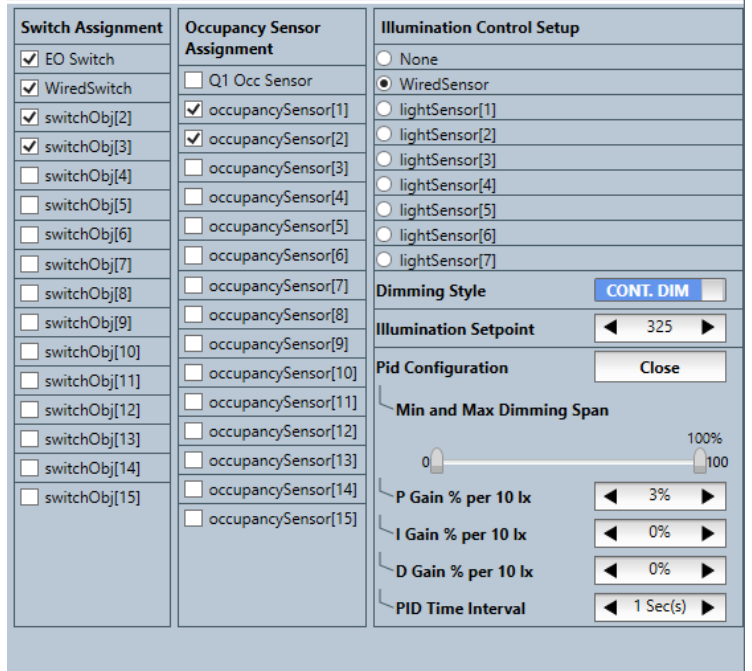
LNS Plug-in provides graphical user interface for configuration and monitoring. Plug-in simplifies hardware I/O customization, communication parameters, control sequences. Plug-in can be executed from-within network management tool such as LonMaker for Windows or similar.

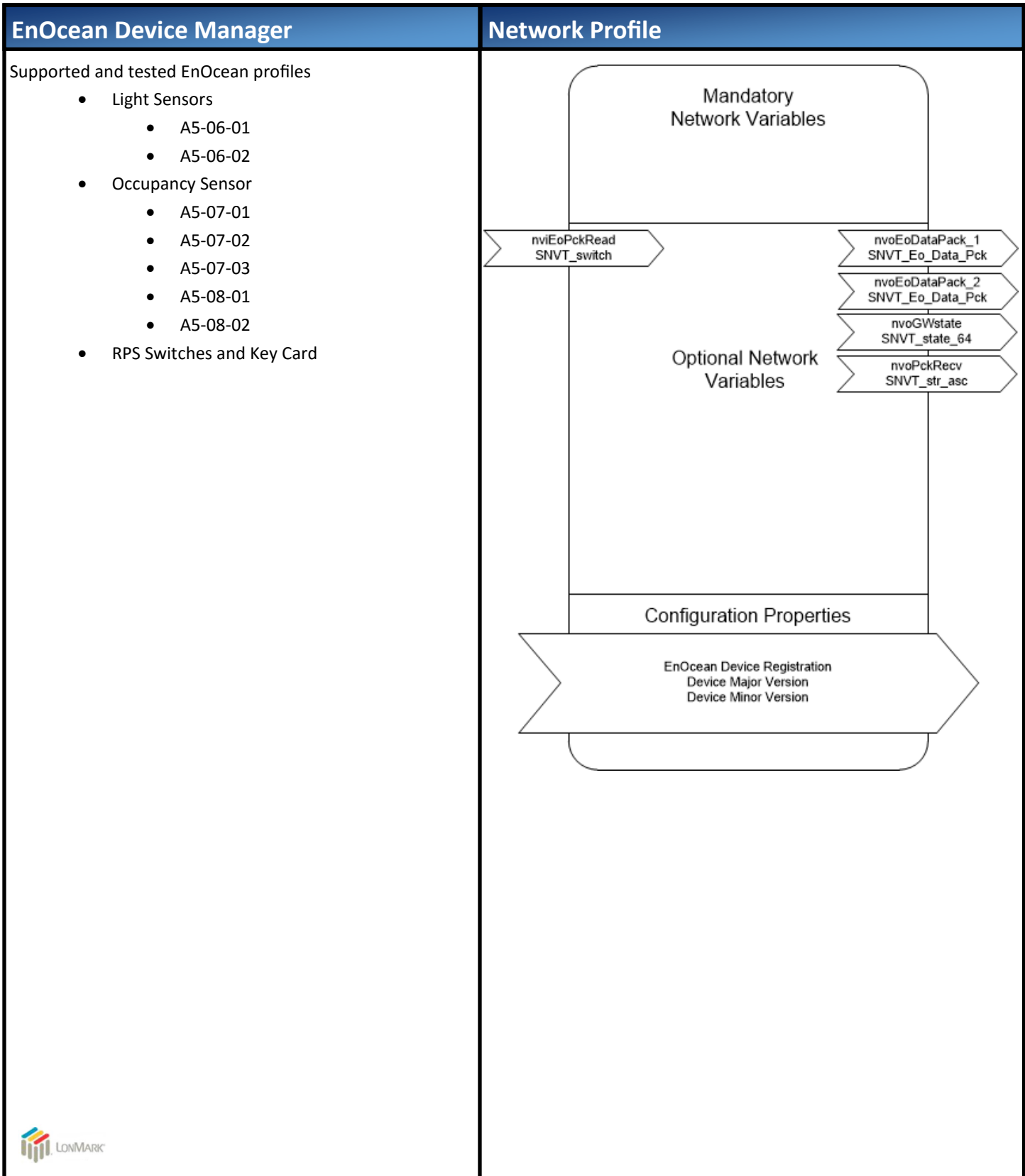


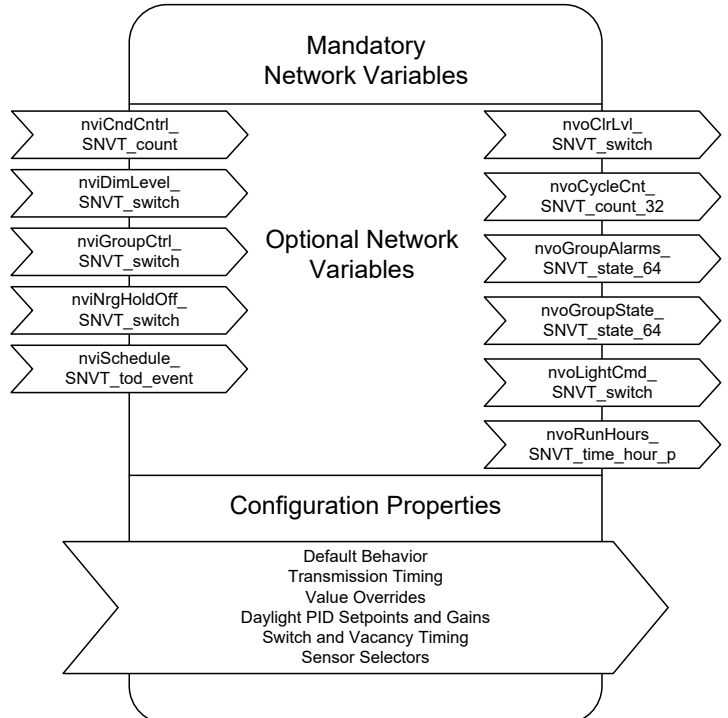
Software

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.
- EnOcean Device heartbeat support with alarming.
- Time of Day scheduling with the ability to warn before the lights go unoccupied.
- Multiple dimming solutions including ON/OFF, PID based continuous, or manual dimming pots.
- Energy setback connection for Title 24 compliance.
- Configure occupancy sensors as vacancy sensors.
- Handles up to 16 switches, 16 Occupancy sensors, and 8 Light sensors.
- EnOcean wireless relays and dimming module support.
- Standard ON/OFF or timed based switches.
- Up to 8 individual groups of relays/dimming per controller

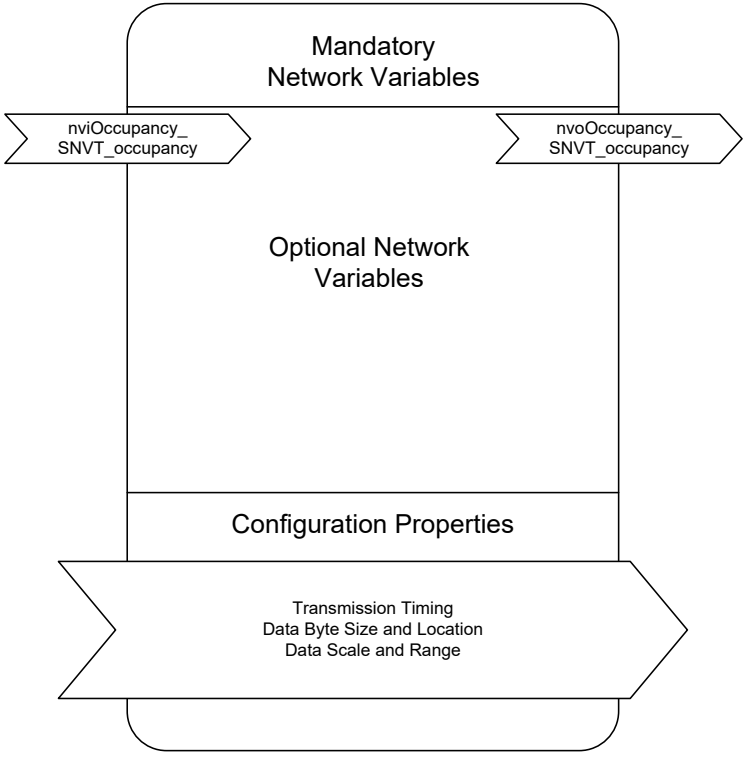


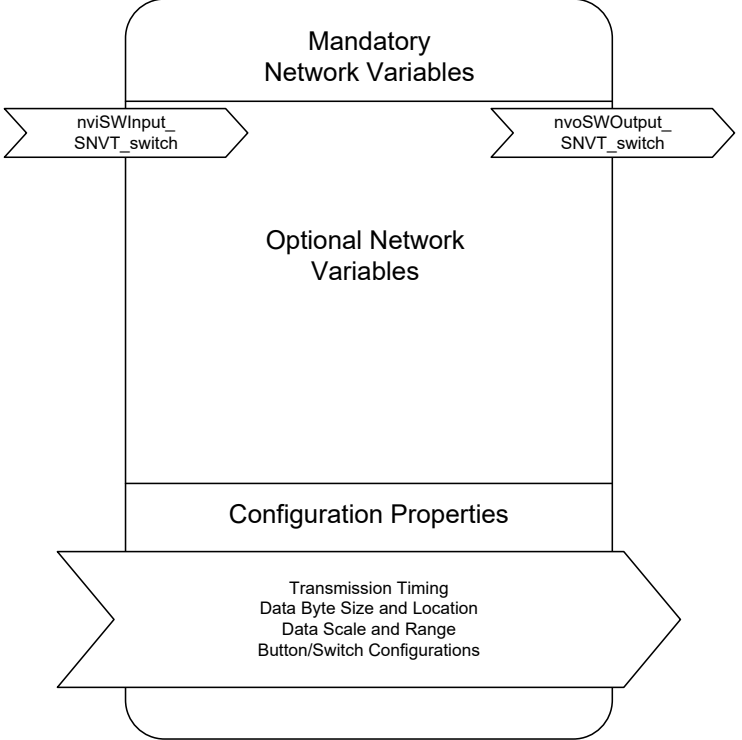


LonWorks Group	Network Profile
<p>Relay Group Interface. 8 included</p>	 <p>The diagram illustrates the network profile structure. It is divided into three main sections:</p> <ul style="list-style-type: none"> Mandatory Network Variables: A rounded rectangle at the top containing a vertical stack of six arrow-shaped boxes pointing right: <ul style="list-style-type: none"> nviCndCtrl_SNVT_count nviDimLevel_SNVT_switch nviGroupCtrl_SNVT_switch nviNrgHoldOff_SNVT_switch nviSchedule_SNVT_tod_event Optional Network Variables: A central area containing two vertical stacks of arrow-shaped boxes pointing right: <ul style="list-style-type: none"> Left Stack: nvoCnrLvl_SNVT_switch, nvoCycleCnt_SNVT_count_32, nvoGroupAlarms_SNVT_state_64, nvoGroupState_SNVT_state_64, nvoLightCmd_SNVT_switch, nvoRunHours_SNVT_time_hour_p Right Stack: (Empty) Configuration Properties: A large arrow-shaped box at the bottom containing the following text: <ul style="list-style-type: none"> Default Behavior Transmission Timing Value Overrides Daylight PID Setpoints and Gains Switch and Vacancy Timing Sensor Selectors



LonWorks Group	Network Profile
<p>Light Sensor Interface. 8 included</p>	<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 rectangular box at the top. It contains two horizontal arrows pointing outwards. The left arrow is labeled 'nviLux_SNVT_lux' and the right arrow is labeled 'nvoLux_SNVT_lux'. Optional Network Variables: A large rectangular box in the middle, currently empty. Configuration Properties: A section at the bottom containing a large arrow-shaped box pointing to the right. Inside this box, the following properties are listed: <ul style="list-style-type: none"> Transmission Timing Data Byte Size and Location Data Scale and Range

LonWorks Group	Network Profile
<p>Occupancy Sensor Interface. 16 included</p>	 <p>The diagram illustrates the network profile structure. It is divided into three main sections: Mandatory Network Variables, Optional Network Variables, and Configuration Properties. The Mandatory Network Variables section contains two variables: nviOccupancy_SNVT_occupancy and nvoOccupancy_SNVT_occupancy. The Optional Network Variables section is currently empty. The Configuration Properties section includes Transmission Timing, Data Byte Size and Location, and Data Scale and Range.</p>

LonWorks Group	Network Profile
<p>Switch Sensor Interface. 16 included</p>	 <p>The diagram illustrates the network profile structure. It is divided into three main sections: <ul style="list-style-type: none"> Mandatory Network Variables: A rounded rectangular box at the top containing two variables: <code>nviSWInput_SNVT_switch</code> (indicated by a left-pointing arrow) and <code>nvoSWOutput_SNVT_switch</code> (indicated by a right-pointing arrow). Optional Network Variables: A large empty rectangular box in the middle. Configuration Properties: A section at the bottom containing a list of properties: Transmission Timing, Data Byte Size and Location, Data Scale and Range, and Button/Switch Configurations. This section is enclosed in a large right-pointing arrow shape. </p>