

Applications

Application is compatible with Q1 Hardware. An event based energy shedding manager built with multiple levels and stages of shedding and customizable ranges for each stage. Each stage has 2 levels of shedding for prioritized shedding area's. Custom binding tool for ease of connection to equipment controller. 10 reoccurring or 1 time events available.

Software

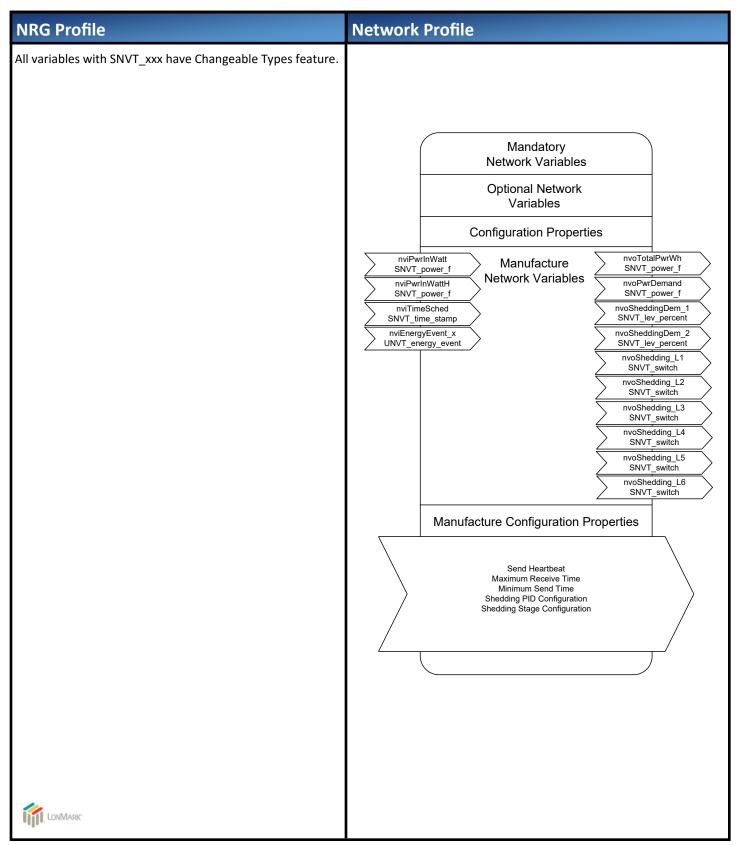
Software features include:

- Multiple shedding strategies included
- Configurable end of shedding command, allows equipment to auto control hardware based resets or force into no reset mode.
- Full PID control of the shedding load control
- Up to 6 stages of shedding "zones"
- Full control over stage timing and type
- Multiple staging operations available
- 10 reoccurring or 1 time events
- Individual stage output capping per level
- Changeable network variable types
- Slave mode for any unused I/O, which can be bound to another controller

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











Open Loop Sensor Profile Network Profile Open Loop Sensor profile is used by all physical inputs. Open Loop Sensor functional block information. Inputs can be used as slave I/O or as part of the main application. (Physical inputs) All variables with SNVT xxx have Changeable Types feature. nvoHwData_x Mandatory SNVT xxx **Network Variables** nvoRawHwData_x SNVT_count **Optional Network** Variables **Configuration Properties** Default Value Invert Value Override Value Offset Value Maximum Input Range Minimum Input Range Maximum/Minimum Send Time Minimum Send Delta Manufacture **Network Variables** Manufacture Configuration Properties Average Conditioned Value Input Assignment Input Minimum/Maximum Range Input Signal Type Network Variable Type Maximum Network Variable Size





Open Loop Actuator Profile	Network Profile
Open Loop Actuator Profile Analog Output profile is used by all analog outputs. Outputs can be used as slave I/O or as part of the main application. All variables with SNVT_xxx have Changeable Types feature	Mandatory Network Variables Optional Network Variables Configuration Properties Network Variables Manufacture Network Variables Manufacture Configuration Properties Default Value Invert Value Override Value Maximum Receive Time Output Assignment
	Invert Value Override Value Maximum Receive Time





Open Loop Sensor Profile Network Profile Digital Output profile is used by all digital outputs. Digital Outputs functional block information. Outputs can be used as slave I/O or as part of the main application. All variables with SNVT_xxx have Changeable Types Mandatory **Network Variables Optional Network** Variables **Configuration Properties** nviHwDoCmd_x nvoHwDoValue_x Manufacture SNVT_count SNVT_switch **Network Variables** Manufacture Configuration Properties Default Value Invert Value Override Value Maximum Receive Time Output Assignment Maximum/Minimum Send Time Minimum Send Delta Floating Point Configuration





Node Object Profile Network Profile Node Object profile includes hardware specific network Node Object functional block information. variables. The variables are for internal and use by the plugin only. nviRequest SNVT_obj_request nvoStatus SNVT_obj_status Mandatory **Network Variables** nvoFileDirectory Optional Network Variables **Configuration Properties** nviGetReg UNVT RegisterIO Manufacture **Network Variables** nviSetReg UNVT_RegisterIO nviSetMem UNVT_RegisterIO32 Manufacture Configuration Properties Input Translation Table