



## Profile Definition and Network Variables

The following tables are sorted as follows:

- Tables are listed by unit/profile type and sorted by network variable number.
- Tables are sorted by name and provide a complete list of names, types, values/ranges, and descriptions.

*Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.*



Profile Index	Network Variable Name	Recv HrtBt	Variable Type	Variable Description
37	nviApplicMode	▼	SNVT_hvac_mode	Heat Cool Mode Request
38	nviAuxHeatEnable		SNVT_switch	Heat Auxiliary Enable
39	nviBldgStaticSP	▼	SNVT_press_p	Building Static Pressure Setpoint
40	nviBldgStatPress		SNVT_press_p	Building Static Pressure
41	nviComprEnable	▼	SNVT_switch	Compressor Cooling Enable BAS
42	nviCWFlow		SNVT_switch	Condenser Water Flow BAS
43	nviDACISP	▼	SNVT_temp_p	Discharge Air Cooling Setpoint BAS
44	nviDAHTSP	▼	SNVT_temp_p	Discharge Air Heating Setpoint BAS
45	nviDARheatSP	▼	SNVT_temp_p	Discharge Air Reheat Setpoint BAS
46	nviDehumEnable		UNVT_switch_binary	Dehumidification System Enable BAS
47	nviEconEnable	▼	UNVT_switch_multistate	Economizer Enable BAS
48	nviEmergOverride	▼	SNVT_hvac_emerg	Emergency Override BAS
49	nviHumEnable		UNVT_switch_binary	Humidification Enable BAS
50	nviOAMinPos	▼	SNVT_lev_percent	Economizer Minimum Position Setpoint
51	nviOccManCmd	▼	SNVT_lev_percent	Occupancy Request
52	nviOccSchedule	▼	SNVT_lev_percent	Occupancy Request
53	nviOccSensor	▼	SNVT_occupancy	Occupancy Input BAS
54	nviOutdoorRH	▼	SNVT_lev_percent	Outdoor Air Relative Humidity BAS
55	nviOutdoorTemp	▼	SNVT_temp_p	Outdoor Air Temperature BAS
56	nviRTUConfig		SNVT_state	Rooftop Configuration
	nviRTUConfig.0		(MSB) Bit 0	Reserved
	nviRTUConfig.1		Bit 1	Cooling Lockout
	nviRTUConfig.2		Bit 2	Heating Lockout
	nviRTUConfig.3		Bit 3	Demand Limit Request BAS
	nviRTUConfig.4		Bit 4	Energy Consumption Reset
	nviRTUConfig.5		Bit 5	Supply Fan Compensation
	nviRTUConfig.6		Bit 6	PreCool Enable Command
	nviRTUConfig.7		Bit 7	Morning Warmup Enable Command
	nviRTUConfig.8		Bit 8	Supply Air Tempering Request BAS
	nviRTUConfig.9		Bit 9	Daytime Warmup Enable Command
	nviRTUConfig.10		Bit 10	Timed Override Request (with Bit 11)



Profile Index	Network Variable Name	Recv HrtBt	Variable Type	Variable Description
	nviRTUConfig.11		Bit 11	Timed Override Request 00 Idle 01 On 10 Cancel 11 Invalid
	nviRTUConfig.12		Bit 12	Reserved
	nviRTUConfig.13		Bit 13	Reserved
	nviRTUConfig.14		Bit 14	Reserved
	nviRTUConfig.15		(LSB) Bit 15	Reserved
57	nviRequest		SNVT_obj_request	Reset Diagnostic Request
58	nviSetpoint	▼	SNVT_temp_p	Space Temperature Setpoint BAS
59	nviSetptOffset	▼	SNVT_temp_p	Space Setpoint Offset BAS
60	nviSetptShift	▼	SNVT_temp_setpt	Space Setpoint Shift BAS
61	nviSpaceCO2	▼	SNVT_ppm	Space CO2 Concentration BAS
62	nviSpaceDehumSP	▼	SNVT_lev_percent	Space Dehumidification Setpoint BAS
63	nviSpaceHumSP	▼	SNVT_lev_percent	Space Humidity Setpoint BAS
64	nviSpaceRH	▼	SNVT_lev_percent	Space Relative Humidity BAS
65	nviSpaceTemp	▼	SNVT_temp_p	Space Temperature BAS
66	nviTraneVar2		UNVT_c5c	Manufacturer-defined

**NOTE:** Greyed out LonTalk network variables are not supported on Odyssey.



nv Index	Configuration Variable Name	Send HrtBt	Variable Type	Variable Description
67	nvoAlarmMessage		SNVT_str_asc	Diagnostic Last Message
68	nvoBldgStatPress	▼	SNVT_press_p	Space Static Pressure Active
69	nvoCondCap	▼	SNVT_lev_percent	Condenser Capacity
70	nvoCoolPrimary	▼	UNVT_switch_binary	Cooling Capacity Status
71	nvoCprsrsRunning	▼	SNVT_state	Compressor Status
	nvoCprsrsRunning.0		(MSB) Bit 0	Validity of bit 8
	nvoCprsrsRunning.1		Bit 1	Validity of bit 9
	nvoCprsrsRunning.2		Bit 2	Validity of bit 10
	nvoCprsrsRunning.3		Bit 3	Validity of bit 11
	nvoCprsrsRunning.4		Bit 4	Validity of bit 12
	nvoCprsrsRunning.5		Bit 5	Validity of bit 13
	nvoCprsrsRunning.6		Bit 6	Validity of bit 14
	nvoCprsrsRunning.7		Bit 7	Validity of bit 15
	nvoCprsrsRunning.8		Bit 8	Compressor 1A Status
	nvoCprsrsRunning.9		Bit 9	Compressor 1B Status
	nvoCprsrsRunning.10		Bit 10	Compressor 1C Status
	nvoCprsrsRunning.11		Bit 11	Compressor 1D Status
	nvoCprsrsRunning.12		Bit 12	Compressor 2A Status
	nvoCprsrsRunning.13		Bit 13	Compressor 2B Status
nvoCprsrsRunning.14		Bit 14	Compressor 2C Status	
nvoCprsrsRunning.15		(LSB) Bit 15	Compressor 2D Status	
72	nvoCWFlow	▼	SNVT_switch	Condenser Water Flow Status
73	nvoCWPump	▼	SNVT_switch	Condenser Water Pump Status
74	nvoCWTemp	▼	SNVT_temp_p	Condenser Water Temperature
75	nvoDAReheatSP	▼	SNVT_temp_p	Discharge Air Reheat Setpoint Active
76	nvoDehumidifier	▼	SNVT_switch	Dehumidification Control Status
77	nvoDischAirTemp	▼	SNVT_temp_p	Discharge Air Temperature
78	nvoEffectOccup	▼	SNVT_occupancy	Occupancy Status
79	nvoEffectSetpt	▼	SNVT_temp_p	Space Temperature Setpoint Active
80	nvoEffSpaceHumSP	▼	SNVT_lev_percent	Space Humidity Active
81	nvoEREABPDamper	▼	SNVT_lev_percent	Energy Recovery Exhaust Air Bypass Damper Position
82	nvoERFrostAvoid	▼	SNVT_switch	Energy Recovery Frost Avoidance Status
83	nvoERLvgExhTemp	▼	SNVT_temp_p	Energy Recovery Leaving Exhaust Temperature Status



nv Index	Configuration Variable Name	Send HrtBt	Variable Type	Variable Description
84	nvoEROABPDamper	▼	SNVT_lev_percent	Energy Recovery Outdoor Air Bypass Damper Status
85	nvoERPreheat	▼	SNVT_switch	Energy Recovery Preheat Status
86	nvoERSStatus	▼	SNVT_switch	Energy Recovery Status
87	nvoExhDamper	▼	SNVT_lev_percent	Exhaust Damper Position
88	nvoExhFanOnOff	▼	SNVT_switch	Exhaust Fan Output Status
89	nvoExhFanStatus	▼	SNVT_switch	Exhaust Fan Speed Status
90	nvoFanSpeed	▼	SNVT_switch	Fan Speed Status
91	nvoFDD	▼	SNVT_state	Fault Detection and Diagnostics
	nvoFDD.0		(MSB) Bit 0	Diagnostic: Not Economizing When Should Be
	nvoFDD.1		Bit 1	Diagnostic: Economizing When Should Not
	nvoFDD.2		Bit 2	Diagnostic: Excessive Outdoor Air Flow
	nvoFDD.3		Bit 3	Diagnostic: Mixed Air Low Temperature Cycle
	nvoFDD.4		Bit 4	Diagnostic: Mixed Air Temperature Sensor Failure
	nvoFDD.5		Bit 5	Diagnostic: Outdoor Air Damper Not Modulating
	nvoFDD.6		Bit 6	Diagnostic: Outdoor Air Temperature Sensor Failure
	nvoFDD.7		Bit 7	Diagnostic: Return Air Temperature Sensor Failure
	nvoFDD.8		Bit 8	Diagnostic: Supply Air Temperature Sensor Failure
	nvoFDD.9		Bit 9	Reserved
	nvoFDD.10		Bit 10	Reserved
	nvoFDD.11		Bit 11	Reserved
	nvoFDD.12		Bit 12	Reserved
	nvoFDD.13		Bit 13	Reserved
nvoFDD.14		Bit 14	Reserved	
nvoFDD.15		(LSB) Bit 15	Reserved	
92	nvoHeatCool	▼	SNVT_hvac_mode	Heat Cool Mode Status
93	nvoHeatPrimary	▼	SNVT_lev_percent	Heating Capacity Primary Status
94	nvoHeatSecondary	▼	SNVT_lev_percent	Heating Capacity Secondary Status
95	nvoHumidifier	▼	SNVT_lev_percent	Humidification Capacity Status
96	nvoLocalCWTemp	▼	SNVT_temp_p	Condenser Water Temperature Local
97	nvoLocalSpaceTmp	▼	SNVT_temp_p	Space Temperature Local
98	nvoMixedAirTemp	▼	SNVT_temp_p	Mixed Air Temperature Local
99	nvoOADamper	▼	SNVT_lev_percent	Outdoor Air Damper Position
100	nvoOAEenthalpy	▼	SNVT_enthalpy	Outdoor Air Enthalpy Active



nv Index	Configuration Variable Name	Send HrtBt	Variable Type	Variable Description
101	nvoOAFflow	▼	FNVT_flow	Outdoor Air Flow Active
102	nvoOutdoorRH	▼	SNVT_lev_percent	Outdoor Air Humidity Active
103	nvoOutdoorTemp	▼	SNVT_temp_p	Outdoor Air Temperature Active
104	nvoRATemp	▼	SNVT_temp_p	Return Air Temperature
105	nvoRetFanOnOff	▼	SNVT_switch	Return Fan Output Status
106	nvoRetFanPress	▼	SNVT_press_p	Return Fan Air Pressure
107	nvoRetFanStatus	▼	SNVT_switch	Return Fan Speed Status
108	nvoRTUStatus	▼	SNVT_state	Rooftop Status
	nvoRTUStatus.0	▼	(MSB) Bit 0	Unit Running State
	nvoRTUStatus.1	▼	Bit 1	Emergency Stop
	nvoRTUStatus.2	▼	Bit 2	External Auto Stop Input Status
	nvoRTUStatus.3	▼	Bit 3	Condensate Overflow Input
	nvoRTUStatus.4	▼	Bit 4	Timed Override Status (with Bit 5)
	nvoRTUStatus.5	▼	Bit 5	Timed Override Status
				00 Idle
				01 On
	nvoRTUStatus.5	▼	Bit 5	10 Cancel
				Reserved
	nvoRTUStatus.6	▼	Bit 6	Precool Mode Status
	nvoRTUStatus.7	▼	Bit 7	Morning Warmup Running
	nvoRTUStatus.8	▼	Bit 8	Supply Air Tempering Status
	nvoRTUStatus.9	▼	Bit 9	Daytime Warmup Running
	nvoRTUStatus.10	▼	Bit 10	Reserved
nvoRTUStatus.11	▼	Bit 11	Compressor Lockout Status	
nvoRTUStatus.12	▼	Bit 12	Coil Frost Protection Status, Circuit 1	
nvoRTUStatus.13	▼	Bit 13	Coil Frost Protection Status, Circuit 2	
nvoRTUStatus.14	▼	Bit 14	Rapid Restart Status	
nvoRTUStatus.15	▼	(LSB) Bit 15	Reserved	
109	nvoSetpoint	▼	SNVT_temp_p	Space Temperature Setpoint Local
110	nvoSpaceCO2	▼	SNVT_ppm	Space CO2 Concentration Active
111	nvoSpaceEnthalpy	▼	SNVT_enthalpy	Return Air Enthalpy Active
112	nvoSpaceRH	▼	SNVT_lev_percent	Space Humidity Active
113	nvoSpaceTemp	▼	SNVT_temp_p	Space Temperature Active



nv Index	Configuration Variable Name	Send HrtBt	Variable Type	Variable Description
114	nvoStartsRunTmA	▼	UNVT_starts_runtime	Starts - Compressor 1A
		▼	SNVT_count_f	Starts
		▼	SNVT_time_f	Run Time
115	nvoStartsRunTmB	▼	UNVT_starts_runtime	Starts - Compressor 1B
		▼	SNVT_count_f	Starts
		▼	SNVT_time_f	Run Time
116	nvoStartsRunTmC	▼	UNVT_starts_runtime	Starts - Compressor 1C
		▼	SNVT_count_f	Starts
		▼	SNVT_time_f	Run Time
117	nvoStartsRunTmD	▼	UNVT_starts_runtime	Starts - Compressor 2A
		▼	SNVT_count_f	Starts
		▼	SNVT_time_f	Run Time
118	nvoStartsRunTmE	▼	UNVT_starts_runtime	Starts - Compressor 2B
		▼	SNVT_count_f	Starts
		▼	SNVT_time_f	Run Time
119	nvoStartsRunTmF	▼	UNVT_starts_runtime	Starts - Compressor 2C
		▼	SNVT_count_f	Starts
		▼	SNVT_time_f	Run Time
120	nvoStatus	▼	SNVT_obj_status	Local Setpoint Control
121	nvoSucRfgtPrsC1	▼	SNVT_press_f	Suction Refrigerant Pressure, Circuit 1
122	nvoSucRfgtPrsC2	▼	SNVT_press_f	Suction Refrigerant Pressure, Circuit 2
123	nvoSucRfgtTmpC1	▼	SNVT_temp_p	Suction Refrigerant Temperature, Circuit 1
124	nvoSucRfgtTmpC2	▼	SNVT_temp_p	Suction Refrigerant Temperature, Circuit 2
125	nvoDschRfgtPrsC1	▼	SNVT_press_f	Discharge Refrigerant Pressure, Circuit 1
126	nvoDschRfgtPrsC2	▼	SNVT_press_f	Discharge Refrigerant Pressure, Circuit 2
127	nvoDisSatRfgTmp1	▼	SNVT_temp_p	Discharge Refrigerant Temperature, Circuit 1
128	nvoDisSatRfgTmp2	▼	SNVT_temp_p	Discharge Refrigerant Temperature, Circuit 2
129	nvoAirFlowPctC1	▼	SNVT_lev_percent	Air Flow Percentage, Circuit 1
130	nvoAirFlowPctC2	▼	SNVT_lev_percent	Air Flow Percentage, Circuit 2
131	nvoTerminalLoad	▼	SNVT_lev_percent	Unit Energy Demand
132	nvoTraneVar9		UNVT_c5s	Manufacturer-defined



nv Index	Configuration Variable Name	Send HrtBt	Variable Type	Variable Description
133	nvoUnitCurrent	▼	UNVT_3phase_current	Unit Current Per Line
	nvoUnitCurrent (bytes 1-2)	▼	SNVT_amp_ac	Current L1, in Amps
	nvoUnitCurrent (bytes 3-4)	▼	SNVT_amp_ac	Current L2, in Amps
	nvoUnitCurrent (bytes 5-6)	▼	SNVT_amp_ac	Current L3, in Amps
	nvoUnitCurrent (bytes 7-8)	▼		Invalid
	nvoUnitCurrent (bytes 9-10)	▼		Invalid
	nvoUnitCurrent (bytes 11-12)	▼		Invalid
134	nvoUnitPower	▼	SNVT_power_f	Unit Power Consumption
135	nvoUnitStatus	▼	SNVT_hvac_status	Unit Status
	nvoUnitStatus (byte 1)	▼	.mode	Mode Status
	nvoUnitStatus (bytes 2-3)	▼	.heat_output_primary	Heating Capacity Primary Status
	nvoUnitStatus (bytes 4-5)	▼	.heat_output_secondary	Heating Capacity Secondary Status
	nvoUnitStatus (bytes 6-7)	▼	.cool_output	Cooling Capacity Status
	nvoUnitStatus (bytes 8-9)	▼	.econ_output	Economizer Status
	nvoUnitStatus (bytes 10-11)	▼	.fan_output	Supply Fan Speed Status
	nvoUnitStatus (byte 12)	▼	.in_alarm	In Alarm
136	nvoUnitVoltage	▼	UNVT_3Phase_volt	Unit Voltage
	nvoUnitVoltage (bytes 1-2)	▼	SNVT_volt_ac	Voltage AB
	nvoUnitVoltage (bytes 3-4)	▼	SNVT_volt_ac	Voltage BC
	nvoUnitVoltage (bytes 5-6)	▼	SNVT_volt_ac	Voltage CA

**NOTE:** Greyed out LonTalk network variables are not supported on Odyssey.





nv Index	Configuration Variable Name	SNVT/UNVT, SCPT/UCPT	Variable Description
0	nciBldgStaticSP	SNVT_press_p	Space Static Pressure Setpoint
1	nciBypassTime	SNVT_time_min	Occupied Bypass Time
2	nciCabinetStyle	UCPT_cabinet_style	Cabinet Style*
3	nciCool	UCPT_cool_type	Cool Type*
4	nciCRC	UCPT_crc	Manufacturer-defined*
5	nciDACISP	SNVT_temp_p	Discharge Air Cooling Setpoint
6	nciDAHtSP	SNVT_temp_p	Discharge Air Heating Setpoint
7	nciDAReheatSP	SNVT_temp_p	Discharge Air Reheat Setpoint
8	nciDevBuildNum	U16	Device Build Number
9	nciDeviceConfig	UCPTdeviceConfig	Manufacturer-defined*
10	nciDevMajVer	SCPTdevMajVer	Software Major Version
11	nciDevMinVer	SCPTdevMinVer	Software Minor Version
12	nciEconConfigTyp	UCPT_econo_config_type	Economizer Decision Method*
13	nciEconVent	UCPT_OA_type	Economizer Type Identifier*
14	nciERFrostAvodSP	UCPT_ERFrostAvoidSP	Energy Recovery Frost Avoidance Temp Setpoint*
15	nciExhaustConfig	UCPT_exhaust_cfg	Exhaust Enable Position Setpoint*
16	nciExhRet	UCPT_ER_type	Exhaust Or Return Fan Type*
17	nciFanOperation	SCPTfanOperation	Supply Fan Configuration Command
18	nciHvacType	SNVT_hvac_type	HVAC Unit Type Identifier
19	nciLocation	SNVT_str_asc	Location Label
20	nciMinOAFflowSP	SNVT_flow	Outdoor Air Minimum Flow Setpoint BAS
21	nciMinOutTm	SNVT_time_sec	Minimum Send Time
22	nciOAEnthSP	SNVT_enthalpy	Economizer Outdoor Air Enthalpy Enable Setpoint BAS
23	nciOAMinPos	SNVT_lev_percent	Outdoor Air Damper Minimum Position
24	nciPreheat	UCPT_heat_type	Preheat Type Identifier*
25	nciRcvHrtBt	SNVT_time_sec	Receive Heartbeat
26	nciRefrigType	UCPT_refrig_type	Refrigeration Type Identifier*
27	nciReheat	UCPT_heat_type	Reheat Type Identifier*
28	nciRetFanPressSP	SNVT_press_p	Return Fan Air Pressure Setpoint



nv Index	Configuration Variable Name	SNVT/UNVT, SCPT/UCPT	Variable Description
29	nciSetpoints	SNVT_temp_setpt	Occupancy Temperature Setpoints
			Occupied Cool Setpoint
			Occupied Standby Cooling Setpoint
			Unoccupied Cooling Setpoint
			Occupied Heating Setpoint
			Occupied Standby Heating Setpoint
			Unoccupied Heating Setpoint
30	nciSndHrtBt	SNVT_time_sec	Send Heartbeat Time
31	nciSpaceCO2Lim	SNVT_ppm	Space CO2 High Limit
32	nciSpaceCO2LowLm	SNVT_ppm	Space CO2 Low Limit*
33	nciSpaceHumSP	SNVT_lev_percent	Space Humidification Setpoint
34	nciSupplyFan	UCPT_fan_type	Supply Fan Type Identifier*
35	nciUntryType	UCPT_large equip_type	Unitary Type Identifier*
			Model Information
			Cooling Source Size
			Heating Source Size
			Number of Circuits
			Number of Compressors, Circuit 1
			Number of Compressors, Circuit 2
36	nciOATSP	SNVT_temp_p	Economizer Outdoor Air Enable Setpoint BAS

**NOTES:**

- 1.\*Manufacturer defined
2. Greyed out LonTalk network variables are not supported on Odyssey.