



Product Data Sheet

Packaged Fresh Air Unit With Tracer™ LCI-I

Order No. FAXA-SLM001-EN

Date: April 2002



Figure 1. Packaged Fresh Air unit with Tracer LCI-I

Packaged Fresh Air Unit Overview

Packaged Fresh Air units (model FADA or FAHA) are for 100% outdoor air applications and come equipped with a unit control module (UCM) as standard equipment. The UCM is a direct digital unit controller.

Other Packaged Fresh Air unit features are:

- Sizes ranging from 3100 cfm to 6600 cfm
- Gas or electric heat options
- Optional hot gas condenser reheat coil

Reference Trane catalog, *MUA-PRC004-EN*, for more specific product information.

The Packaged Fresh Air unit control package includes applicable control boards, sensors, transformer, required wiring, and actuators. It provides discharge air control through custom proportional integral (PI) control algorithms.

Tracer LCI-I

The optional Tracer LCI-I (LonTalk® communication interface for IntelliPak™) enables the fresh air unit to communicate over a LonTalk network. The pre-configured, factory-installed, and commissioned UCM is a highly-integrated product that provides accurate and reliable control and equipment protection. Factory commissioning helps ensure the highest level of quality and customer satisfaction.

Note: LonTalk and LonWorks are registered trademarks of Echelon Corporation.



Packaged Fresh Air with Tracer LCI-I Features

Packaged Fresh Air units with a Tracer LCI-I include:

- Factory-installed and commissioned controls
- LonMark certification to the LonMark Discharge Air Controller Functional Profile
- LonTalk FTT-10A free topology communications
- Occupied and unoccupied modes
- Stand-alone operation
- High and low-pressure protection
- Compressor minimum on and off timers
- Discharge air control
- Space sensor with optional override, cancel, and setpoint adjustment
- Multi-stage cooling
- Multi-stage gas or electric heat
- High-temperature limit input
- UL agency listing

Feature Descriptions

Following are descriptions of the UCM and Tracer LCI-I features.

Factory Installed and Commissioned Controls

The UCM is factory installed, commissioned, and configured. All units must pass stringent mechanical and electrical performance tests before shipping. This ensures a high quality product.

LonMark Discharge Air Controller Profile

The UCM and Tracer LCI-I conform to the LonMark Discharge Air Controller Functional Profile. The Tracer LCI-I provides LonTalk communication via an FTT-10A transceiver.

Occupancy and Override

The UCM and Tracer LCI-I provide:

- **A factory programmed set of occupied and unoccupied setpoints.** The Tracer LCI-I accepts communicated occu-

pancy inputs that provide application flexibility for localized or system-wide time-of-day scheduling.

- **An occupied bypass function.** The function enables after-hours operation. An On button on the space-temperature sensor overrides the unoccupied mode. A Cancel button returns the controller to its normal mode.

Equipment Protection

The UCM and Tracer LCI-I provide:

- **Refrigerant high and low-pressure protection and coil frost protection** to prevent the unit from operating in abnormal system conditions
- **Compressor minimum On and Off timers** to extend compressor life by preventing short cycling
- **A discharge air temperature sensor** to help monitor equipment operation and diagnose problems
- **Heat fail detection** for gas heat

Service Mode and Test Start

The UCM allows the user to override normal unit operation. The service mode and test start allow you to test unit functions without bypassing sensors and safety devices, by manually driving outputs from the UCM to aid in troubleshooting.

Discharge Air Control

The Packaged Fresh Air unit provides conditioned fresh air to the space. It controls conditions such as temperature and humidity in the supply air and in the zone.

Gas and Electric Heat

Gas heat is available in single and dual bank configurations with two position or modulating control.

Electric heat is available in one, three, or seven stages up to 122 kW.

Condenser Reheat Circuit

The optional condenser reheat uses the heat normally rejected to the atmosphere to temper the supply air (dehumidify), maintaining conditions and setpoints while using minimal energy.

Data Lists

Table 1 provides an input/output listing for the Tracer LCI-I. Table 2 provides configuration properties for the interface. The list content conforms to LonMark Discharge Air Controller Functional Profile 86.10 and the LonMark node object.

Inputs/Outputs

The UCM uses binary and analog inputs and outputs to control the unit.

Table 1. Tracer LCH Input/Output Listing

Input	SNVT_Type	Output	SNVT_Type
nviDACISP	SNVT_temp_p	nvoAlarmMessage	SNVT_str_asc
nviDADewPointSP	SNVT_temp_p	nvoDADewPoint	SNVT_temp_p
nviDAHtSP	SNVT_temp_p	nvoDehumidifier	SNVT_switch
nviEconEnable	SNVT_switch	nvoDischAirTemp	SNVT_temp_p
nviEmergOverride	SNVT_hvac_emerg	nvoEconEnabled	SNVT_switch
nviOAMinPos	SNVT_lev_percent	nvoEffDADewPtSP	SNVT_temp_p
nviOccManCmd	SNVT_occupancy	nvoEffDATempSP	SNVT_temp_p
nviOccSchedule	SNVT_tod_event	nvoEffectOccup	SNVT_occupancy
nviOutdoorRH	SNVT_lev_percent	nvoEffSpaceDHSP	SNVT_lev_percent
nviOutdoorTemp	SNVT_temp_p	nvoExhFanStatus	SNVT_switch
nviPriCoolEnable	SNVT_switch	nvoHeatCool	SNVT_hvac_mode
nviPriHeatEnable	SNVT_switch	nvoLocalOARH	SNVT_lev_percent
nviRequest	SNVT_obj_request	nvoLocalOATemp	SNVT_temp_p
nviSpaceDehumSP	SNVT_lev_percent	nvoOADamper	SNVT_lev_percent
nviSpaceRH	SNVT_lev_percent	nvoOAEnthalpy	SNVT_enthalpy
nviSpaceTemp	SNVT_temp_p	nvoOAFlow	SNVT_flow
		nvoOutdoorRH	SNVT_lev_percent
		nvoOutdoorTemp	SNVT_temp_p
		nvoRATemp	SNVT_temp_p
		nvoSpaceRH	SNVT_lev_percent
		nvoSpaceTemp	SNVT_temp_p
		nvoStatus	SNVT_obj_status
		nvoUnitStatus	SNVT_hvac_status

Table 2. Configuration Properties

Configuration			
Property	SNVT_Type	SCPT Reference	Description
nciBypassTime	SNVT_time_min	SCPTbypassTime (34)	Local bypass time
nciDACISP	SNVT_temp_p	SCPTdischargeAirCoolingSetpoint (183)	Discharge air cooling setpoint
nciDAHtSP	SNVT_temp_p	SCPTdischargeAirHeatingSetpoint (184)	Discharge air heating Setpoint
nciDevMajVer		SCPTdevMajVer (165)	Device Major Version Number
nciDevMinVer		SCPTdevMinVer (166)	Device Minor Version Number
nciLocation	SNVT_str_asc	SCPTlocation (17)	Location label
nciMinOutTm	SNVT_time_sec	SCPTminSendTime (52)	Minimum send time
nciRcvHrtBt	SNVT_time_sec	SCPTmaxRcvTime (48)	Receive heartbeat time
nciSetpoints	SNVT_temp_setpt	SCPTsetPnts (60)	Occupancy temperature setpoints
nciSndHrtBt	SNVT_time_sec	SCPTmaxSendTime (49)	Send heartbeat time



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Product Data Sheet

Commercial Self-Contained with Tracer™ LCI-I

Order No. PKG-PRM001-EN

Date: November 2002



Figure 1. Commercial self-contained, Signature & Modular series products, feature the optional Tracer LonTalk communication interface (LCI-I)

The CSC products, 20-110 tons, feature a unit control module (UCM) with IntelliPak™ unit control package that includes applicable control boards, sensors, transformer, required wiring, and actuators. It provides discharge air control and space comfort control through custom proportional integral (PI) control algorithms.

Reference Trane catalogs, *PKG-PRC002-EN* & *PKG-PRC003-EN*, for more specific product information.

Tracer LCI-I

The optional Tracer LCI-I (LonTalk® communication interface for IntelliPak™) enables the CSC to communicate over a LonTalk network. The pre-configured, factory-installed, and commissioned UCM is a highly-integrated product that provides accurate and reliable control and equipment protection. Factory commissioning helps ensure the highest level of quality and customer satisfaction.

Note: LonTalk and LonWorks are registered trademarks of Echelon Corporation.

CSC with Tracer LCI-I Features

Our 20–110 ton CSC products with a Tracer LCI-I include:

- Factory-installed and commissioned controls
- LonMark certification to the LonMark Discharge Air Controller Functional Profile
- LonMark certification to the LonMark Space Comfort Control Functional Profile



- LonTalk FTT-10A free topology communications
- Occupied and unoccupied modes
- Stand-alone operation
- High and low-pressure protection
- Compressor minimum on and off timers
- Discharge air control
- Space sensor with optional override, cancel, and setpoint adjustment
- Multi-stage cooling
- Electric heat
- High-temperature limit input
- UL agency listing

Feature Descriptions

Following are descriptions of the UCM and Tracer LCI-I features.

Factory Installed and Commissioned Controls

The UCM is factory installed, commissioned, and configured. All units must pass stringent mechanical and electrical performance tests before shipping. This ensures a high quality product.

LonMark Discharge Air Controller Profile

The UCM and Tracer LCI-I conform to the LonMark Discharge Air Controller Functional Profile. The Tracer LCI-I provides LonTalk communication via an FTT-10A transceiver.

Occupancy and Override

The UCM and Tracer LCI-I provide:

- **A factory programmed set of occupied and unoccupied setpoints.** The Tracer LCI-I accepts communicated occupancy inputs that provide application flexibility for localized or system-wide time-of-day scheduling.
- **An occupied bypass function.** The function enables after-hours operation. An On button on the space-temperature sensor

overrides the unoccupied mode. A Cancel button returns the controller to its normal mode.

Equipment Protection

The UCM and Tracer LCI-I provide:

- **Refrigerant high and low-pressure protection and coil frost protection** to prevent the unit from operating in abnormal system conditions
- **Compressor minimum On and Off timers** to extend compressor life by preventing short cycling
- **A discharge air temperature sensor** to help monitor equipment operation and diagnose problems

Service Mode and Test Start

The UCM allows the user to override normal unit operation. The service mode and test start allow you to test unit functions without bypassing sensors and safety devices, by manually driving outputs from the UCM to aid in troubleshooting.

Discharge Air Control

The Packaged Fresh Air unit provides conditioned fresh air to the space. It controls conditions such as temperature and humidity in the supply air and in the zone.

Space Comfort Control

Electric Heat

Electric heat is available as single stage up to 48 kW on 20–80 tons and two-stage up to 75 kW on 90–110 tons.

Data Lists

Table 1 provides an input/output listing for the Tracer LCI-I. Table 2 provides configuration properties for the interface. The list content conforms to LonMark Discharge Air Controller Functional Profile 86.10 and the LonMark node object.

Inputs/Outputs

The UCM uses binary and analog inputs and outputs to control the unit.

Table 2. Configuration Properties

Property	SNVT_Type	SCPT Reference	Description
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Table 1. Tracer LCH Input/Output Listing

Input	SNVT_Type	Output	SNVT_Type
nviBldgStaticSP	SNVT_press_p	nvoAlarmMessage	SNVT_str_asc
nviBldgStatPress	SNVT_press_p	nvoApplicMode	SNVT_hvac_mode
nviCWFlow	SNVT_switch	nvoBldgStatPress	SNVT_press_p
nviDACISP	SNVT_temp_p	nvoCWFlow	SNVT_switch
nviDAHtSP	SNVT_temp_p	nvoCWPump	SNVT_switch
nviEconEnable	SNVT_switch	nvoCWTemp	SNVT_temp_p
nviEmergOverride	SNVT_hvac_emerg	nvoDischAirTemp	SNVT_temp_p
nviMinOAFFlowSP	SNVT_flow	nvoDuctStatPress	SNVT_press_p
nviOAMinPos	SNVT_lev_percent	nvoEconEnabled	SNVT_switch
nviOccManCmd	SNVT_occupancy	nvoEffDATempSP	SNVT_temp_p
nviOccSchedule	SNVT_tod_event	nvoEffDuctStatSP	SNVT_press_p
nviOutdoorRH	SNVT_lev_percent	nvoEffectOccup	SNVT_occupancy
nviOutdoorTemp	SNVT_temp_p	nvoExhFanStatus	SNVT_switch
nviPriCoolEnable	SNVT_switch	nvoHeatCool	SNVT_hvac_mode
nviPriHeatEnable	SNVT_switch	nvoLocalCWTemp	SNVT_temp_p
nviRequest	SNVT_obj_request	nvoLocalOARH	SNVT_lev_percent
nviSpaceRH	SNVT_lev_percent	nvoLocalOATemp	SNVT_temp_p
nviSpaceTemp	SNVT_temp_p	nvoMATemp	SNVT_temp_p
		nvoOADamper	SNVT_lev_percent
		nvoOAEnthalpy	SNVT_enthalpy
		nvoOAFflow	SNVT_flow
		nvoOutdoorRH	SNVT_lev_percent
		nvoOutdoorTemp	SNVT_temp_p
		nvoRATemp	SNVT_temp_p
		nvoSpaceRH	SNVT_lev_percent
		nvoSpaceTemp	SNVT_temp_p
		nvoStatus	SNVT_obj_status
		nvoUnitStatus	SNVT_hvac_status



Table 2. Tracer LCI-I Discharge Air Control Functional Profile Configuration Properties

Configuration Property	SNVT_Type	SCPT Reference	Description
nciBypassTime	SNVT_time_min	SCPTbypassTime (34)	Local bypass time
nciDACISP	SNVT_temp_p	SCPTdischargeAirCoolingSetpoint (183)	Discharge air cooling setpoint
nciDAHtSP	SNVT_temp_p	SCPTdischargeAirHeatingSetpoint (184)	Discharge air heating setpoint
nciDevMajVer		SCPTdevMajVer (165)	Device Major Version Number
nciDevMinVer		SCPTdevMinVer (166)	Device Minor Version Number
nciDuctStatSP	SNVT_press_p	SCPTductStaticPressureSetpoint (189)	Duct static pressure setpoint
nciLocation	SNVT_str_asc	SCPTlocation (17)	Location label
nciMinOutTm	SNVT_time_sec	SCPTminSendTime (52)	Minimum send time
nciOAMinPos	SNVT_lev_percent	SCPTminRnge (23)	Outdoor air damper minimum position
nciOATSP	SNVT_temp_p	SCPToutdoorAirTempSetpoint (199)	Outdoor air temperature setpoint
nciRcvHrtBt	SNVT_time_sec	SCPTmaxRcvTime (48)	Receive heartbeat time
nciSetpoints	SNVT_temp_setpt	SCPTsetPnts (60)	Occupancy temperature setpoints
nciSndHrtBt	SNVT_time_sec	SCPTmaxSendTime (49)	Send heartbeat time

Table 3. Tracer LCI-I Space Comfort Control Functional Profile Input/Output Listing

Input	SNVT_Type	Output	SNVT_Type
nviAuxHeatEnable	SNVT_switch	nvoAlarmMessage	SNVT_str_asc
nviComprEnable	SNVT_switch	nvoDischAirTemp	SNVT_temp_p
nviEconEnable	SNVT_switch	nvoEffectOccup	SNVT_occupancy
nviEmergOverride	SNVT_hvac_emerg	nvoEffectSetpt	SNVT_Temp_p
nviHeatCool	SNVT_hvac_mode	nvoExhFanStatus	SNVT_switch
nviOccManCmd	SNVT_occupancy	nvoHeatCool	SNVT_hvac_mode
nviOccSchedule	SNVT_tod_event	nvoOADamper	SNVT_lev_percent
nviOutdoorRH	SNVT_lev_percent	nvoOutdoorRH	SNVT_lev_percent
nviOutdoorTemp	SNVT_temp_p	nvoOutdoorTemp	SNVT_temp_p
nviRequest	SNVT_obj_request	nvoSpaceCO2	SNVT_ppm
nviSetpoint	SNVT_temp_p	nvoSpaceRH	SNVT_lev_percent
nviSetptOffset	SNVT_temp_p	nvoSpaceTemp	SNVT_temp_p
nviSetptShift	SNVT_temp_p	nvoStatus	SNVT_obj_status
nviSpaceRH	SNVT_lev_percent	nvoUnitStatus	SNVT_hvac_status
nviSpaceTemp	SNVT_temp_p		

Table 4. Tracer LCH Space Comfort Control Functional Profile Configuration Properties

Configuration Property	SNVT_Type	SCPT Reference	Description
nciBypassTime	SNVT_time_min	SCPTbypassTime (34)	Local bypass time
nciDevMajVer		SCPTdevMajVer (165)	Device Major Version Number
nciDevMinVer		SCPTdevMinVer (166)	Device Minor Version Number
nciLocation	SNVT_str_asc	SCPTlocation (17)	Location label
nciMinOutTm	SNVT_time_sec	SCPTminSendTime (52)	Minimum send time
nciOAMinPos	SNVT_lev_percent	SCPTminRnge (23)	Outdoor air damper minimum position
nciRcvHrtBt	SNVT_time_sec	SCPTmaxRcvTime (48)	Receive heartbeat time
nciSetpoints	SNVT_temp_setpt	SCPTsetPnts (60)	Occupancy temperature setpoints
nciSndHrtBt	SNVT_time_sec	SCPTmaxSendTime (49)	Send heartbeat time



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Product Data Sheet

Trane Packaged Rooftop Unit With Tracer™ LCI-I

Order No. RT-PRG001-EN

Date: February 2003



Trane IntelliPak™ Packaged Rooftop Unit Overview

IntelliPak Packaged rooftop units (models S*HF or S*HG) are specifically designed for rooftop applications, including large office buildings and commercial/industrial facilities. Each rooftop is equipped with a direct digital unit control module (UCM) as standard. Basic components of the UCM are the rooftop module (RTM), single or multiple compressor module (SCM, MCM) and the human interface (HI). This pre-configured, factory-installed and commissioned unit control module (UCM) is a highly-integrated product that provides accurate and reliable control and equipment protection. Factory commissioning helps ensure the highest level of quality and customer satisfaction.

Other features are:

- Sizes ranging from 20-130 tons, Constant Volume (CV) or Variable Air Volume (VAV)
- Gas, electric, steam or hot water heat options
- Inlet Guide Vanes or Variable Frequency Drives (VFD)
- Air-cooled or evaporative-cooled condensers . . . Plus much more!

Reference Trane catalog, RT-PRC010-EN, for more specific product information.

The unit control package also includes applicable control boards, sensors, transformer, required wiring, and actuators.

Tracer LCI-I

The optional Tracer LCI-I (LonTalk® Communication Interface for IntelliPak) enables the rooftop unit to communicate over a LonTalk network. Either space comfort controller functional profile (SCC) or discharge air controller profile (DAC) are available. These profiles are communicated via LonTalk FTT 10A free topology communications transceiver.

Note: LonTalk and LonWorks are registered trademarks of Echelon Corporation.



IntelliPak with Tracer LCI-I Features

- Factory-installed and commissioned controls
- LonMark certification to the LonMark Discharge Air Controller Functional Profile
- LonMark certification to the LonMark Space Comfort Control Functional Profile
- LonTalk FTT-10A free topology communications
- Occupied and unoccupied modes
- Stand-alone operation
- High and low-pressure protection
- Compressor minimum on and off timers
- Discharge air control
- Space sensor with optional override, cancel, and setpoint adjustment
- Multi-stage cooling
- Multi-stage gas, electric, hot water or steam heat
- High-temperature limit input
- UL agency listing

Interoperability Benefits

In addition to the above features, additional interoperability benefits are available with the LonTalk interface.

LonTalk is an industry standard, open, secure, reliable, network communication protocol for controls, created by Echelon Corporation and adopted by the LonMark Interoperability Association. It has been adopted by several standards, such as: EIA-709.1, the Electronic Industries Alliance (EIA) Control Network Protocol Specification and ANSI/ASHRAE 135, part of the American Society of Heating, Refrigeration, and Air-Conditioning Engineers' BACnet control standard for buildings.

Interoperability allows application or project engineers to specify the best products of a given type rather than one vendor's entire system. It can increase market penetration by reducing the need for closed bids. It can reduce product, training and installation costs by

standardizing communications across products. Interoperable systems allow building managers to monitor and control IntelliPak equipment using standardized tools, such as Tracer or third party building automation systems. It enables integration with many different building controls such as access/intrusion monitoring, lighting, fire and smoke devices, energy management, and a wide variety of sensors (temperature, pressure, light, humidity, occupancy, CO2 and air velocity).

Feature Descriptions

Factory Installed and Commissioned Controls

The UCM is factory installed, commissioned, and configured. All units must pass stringent mechanical and electrical performance tests before shipping. This ensures a high quality product.

LonMark Profile

IntelliPak rooftops with variable air volume (VAV) system control conform to the LonMark Discharge Air Controller functional profile. IntelliPak Rooftops with Constant Volume (CV) system control conform to the LonMark Space Comfort Controller functional profile.

The Tracer LCI-I module provides LonTalk communication via an FTT-10A transceiver.

Occupancy and Override

The UCM and Tracer LCI-I provide:

- A factory programmed set of occupied and unoccupied **setpoints**. The Tracer LCI-I accepts communicated occupancy inputs that provide application flexibility for localized or system-wide time-of-day scheduling.
- **An occupied bypass function.** This function enables after-hours operation. An On button on the space-temperature sensor overrides the unoccupied mode. A Cancel button returns the controller to its normal mode.

Equipment Protection

The UCM and Tracer LCI-I provide:

- **Refrigerant high and low-pressure protection and coil frost protection** to prevent the unit from operating in abnormal system conditions
- **Compressor minimum On and Off timers** to extend compressor life by preventing short cycling
- **A discharge air temperature sensor** to help monitor equipment operation and diagnose problems
- **Heat fail detection** for gas heat

Service Mode and Test Start

The UCM allows the service technician to override normal unit operation at the HI. By manually driving outputs from the UCM to aid in troubleshooting, the service mode and test start allow testing of unit functions without bypassing sensors and safety devices.

Discharge Air Control (VAV) Space Comfort Control (CV)

IntelliPak rooftops with LCI provides conditioned fresh air to the space based on discharge air temperature (VAV) or space temperature (CV) and controls conditions such as temperature and pressure in the supply air and in the zone.

Heating Options

Natural gas, electric, hot water or steam.

Data Lists

- Table 1 provides an input/output listing for the Tracer LCI-I.
- Table 2 provides configuration properties for the interface. The list describes conformance to either the LonMark Discharge Air Controller (86.10) or the LonMark Space Comfort Controller (85.00) functional profile (as applicable to the selected system control) and the LonMark node object.

Inputs/Outputs

The UCM uses binary and analog inputs and outputs to control the unit.



Table 1. Tracer LCH Input/Output Listing

Input	Profile	SNVT_Type	Output	Profile	SNVT_Type
nviApplicMode	DAC/SCC	SNVT_hvac_mode	nvoAlarmMessage	Node Ext ¹	SNVT_str_asc
nviAuxHeatEnable	SCC	SNVT_switch	nvoApplicMode	DAC	SNVT_hvac_mode
nviBldgStaticSP	DAC	SNVT_press_p	nvoBldgStatPress	DAC	SNVT_press_p
nviBldgStatPress	DAC	SNVT_press_p	nvoDischAirTemp	DAC/SCC	SNVT_temp_p
nviComprEnable	SCC	SNVT_switch	nvoDuctStatPress	DAC	SNVT_press_p
nviDACISP	DAC	SNVT_temp_p	nvoEconEnabled	DAC	SNVT_switch
nviDAHTSP	DAC	SNVT_temp_p	nvoEffDATempSP	DAC	SNVT_temp_p
nviDuctStaticSP	DAC	SNVT_press_p	nvoEffDuctStatSP	DAC	SNVT_press_p
nviEconEnable	DAC/SCC	SNVT_switch	nvoEffectOccup	DAC/SCC	SNVT_occupancy
nviEmergOverride	DAC/SCC	SNVT_hvac_emerg	nvoEffectSetpt	SCC	SNVT_temp_p
nviHeatCool	SCC	SNVT_hvac_mode	nvoExhFanStatus	DAC	SNVT_switch
nviMinOAFlowSP	DAC	SNVT_flow	nvoHeatCool	DAC/SCC	SNVT_hvac_mode
nviOAMinPos	DAC/SCC ²	SNVT_lev_percent	nvoLocalOARH	DAC	SNVT_lev_percent
nviOccManCmd	DAC/SCC	SNVT_occupancy	nvoLocalOATemp	DAC	SNVT_temp_p
nviOccSchedule	DAC/SCC	SNVT_tod_event	nvoLocalSpaceTmp	SCC ²	SNVT_temp_p
nviOccSensor	SCC	SNVT_occupancy	nvoOADamper	DAC/SCC	SNVT_lev_percent
nviOutdoorRH	DAC/SCC	SNVT_lev_percent	nvoOAEenthalpy	DAC	SNVT_enthalpy
nviOutdoorTemp	DAC/SCC	SNVT_temp_p	nvoOAFlow	DAC	SNVT_flow
nviPriCoolEnable	DAC	SNVT_switch	nvoOutdoorRH	DAC/SCC	SNVT_lev_percent
nviPriHeatEnable	DAC	SNVT_switch	nvoOutdoorTemp	DAC/SCC	SNVT_temp_p
nviRequest	Node	SNVT_obj_request	nvoRATemp	DAC	SNVT_temp_p
nviSetpoint	SCC	SNVT_temp_p	nvoSetpoint	SCC	SNVT_temp_p
nviSetptOffset	SCC	SNVT_temp_p	nvoSpaceCO2	SCC	SNVT_ppm
nviSetptShift	SCC	SNVT_temp_setpt	nvoSpaceRH	DAC/SCC	SNVT_lev_percent
nviSpaceTemp	DAC/SCC	SNVT_temp_p	nvoSpaceTemp	DAC/SCC	SNVT_temp_p
			nvoStatus	Node	SNVT_obj_status
			nvoUnitStatus	DAC/SCC	SNVT hvac_status

Configuration Property	Profile	SNVT_Type	SCPT Reference	Description
nciBypassTime	DAC/SCC	SNVT_time_min	SCPTbypassTime (34)	Local Bypass Time
nciDACISP	DAC	SNVT_temp_p	SCPTdischargeAirCoolingSetpoint (183)	Discharge Air Cooling Setpoint
nciDAHTSP	DAC	SNVT_temp_p	SCPTdischargeAirHeatingSetpoint (184)	Discharge Air Heating Setpoint
nciDevMajVer	Node		SCPTdevMajVer (165)	Device Major Version Number
nciDevMinVer	Node		SCPTdevMinVer (166)	Device Minor Version Number
nciDuctStatSP	DAC	SNVT_press_p	SCPTductStaticPressureSetpoint (189)	Duct Static Pressure Setpoint
nciHvacType	SCC	SNVT_hvac_type	SCPTHvacType (169)	HVAC Unit Type Identifier
nciLocation	DAC/SCC	SNVT_str_asc	SCPTlocation (17)	Location Label
nciMinOutTm	DAC/SCC	SNVT_time_sec	SCPTminSendTime (52)	Minimum Send Time
nciOAMinPos	DAC/SCC	SNVT_lev_percent	SCPTminRnge (23)	Outdoor Air Damper Minimum Position
nciOATSP	DAC	SNVT_temp_p	SCPToutdoorAirTempSetpoint (199)	Outdoor Air Temperature Setpoint
nciRcvHrtBt	DAC/SCC	SNVT_time_sec	SCPTmaxRcvTime (48)	Receive Heartbeat
nciSetpoints	DAC/SCC	SNVT_temp_setpt	SCPTsetPnts (60)	Occupancy Temperature Setpoints
nciSndHrtBt	DAC/SCC	SNVTtime_sec	SCPTmaxSendTime (49)	Send Heartbeat

Notes:

1. nvoAlarmMessage is implemented as a Trane extension to the node object, using a standard SNVT type. See product XIF for details.
2. These variables were recently added to the SCC profile, but are currently defined as product extension variables in the XIF.
3. These input/output variables and configuration properties are accessible through third party, compatible building automation controls as well as Tracer Summit which provides additional manufacturer defined input/output variables and configuration properties.



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Supersedes	New
Stocking Location	TraneNet Eagle

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