Application Note:
Savant System Integration

This application note describes how to integrate a Savant system with North.

Please read the *Commander Manual* or *ObSys Manual* alongside this document, available from *www.northbt.com*

Contents

Compatibility with the Savant System

The Savant system connects to North using the Telnet request-response service, available in all North devices.

Savant utilise the range of HVAC drivers available in North devices, including interfaces to BACnet, Modbus, KNX, Mitsubishi, Daikin, Hitachi, Zip, and Heatmiser.

The North device requires its Essential Data pages and objects configured in a particular format for the Savant profile. An Essential Data page corresponds to a Savant 'zone', and an object to a Savant 'data point'. Up to 45 zones are supported.

Equipment

Savant equipment compatible with North include:

- Savant Pro App
- TrueControl II

Values

A Savant profile supports the following data points for each zone:

- Current temperature
- Heating set point
- Cooling set point

- Heating/Cooling mode
- Fan speed

Additional values available include:

- Outside temperature
- Vacation mode
- Summer/Winter mode

- Hot water mode
- Common alarm states
- Custom on/off states

Prerequisites

The North device requires its Essential Data pages and objects configured in a particular format for the Savant profile. First use the Savant Component Profiling Tool to configure Essential Data in the format required. A North engineer should then configure each Essential Data object with a remote object and remote rate, connecting it to the HVAC system.

For full details on configuring the Savant system refer to the *North Commander Deployment Guide* available from Savant Europe.

The Telnet service in the North device should be enabled via the Telnet Setup object, or by setting the PROGRAM switch to ON. See *Commander Manual* for more information.

If you are connecting via a firewall, then Savant will require access to TCP port 23 on the North device.

Essential Data Configuration

A Savant profile configures Essential Data with a page x object layout of '64x10'.

Pages 1 to 45, for zones 1 to 45, are configured with a label and set with the following objects:

Object	Label	Type	Adjust	High Limit	Low Limit	Type ENum Alternatives
1	Current Temp	Float	No			
2	Heat Point (Set)	Float	Yes	28	17	
3	Heat Point (Read)	Float	No	28	17	
4	Cool Point (Set)	Float	Yes	28	17	
5	Cool Point (Read)	Float	No	28	17	
6	HVAC Mode (Set)	ENum	Yes			0=Off,1=Heat,2=Cool,3=Auto
7	HVAC Mode (Read)	ENum	No			0=Off,1=Heat,2=Cool,3=Auto
8	Fan Speed (Set)	ENum	Yes			1=Low,2=Med,3=High
9	Fan Speed (Read)	ENum	No			1=Low,2=Med,3=High
10	Zone Status	ENum	No			0=Off, 1=Heating, 2=Cooling, 3=Satisfied

Page 46 is set with the following global controls:

Object	Label	Type	Adjust	High Limit	Low Limit	Type ENum Alternatives
1	Outside Temp	Float	No			
2	Vacation Mode	ENum	Yes			0=Home, 1=Holiday
3	Heat/Cool Changeover	ENum	Yes			0=Summer (C), 1=Winter (H)
4	Hot Water	ENum	Yes			0=Off, 1=Enabled, 2=Boost
5						
6						
7						
8	BMS Common Alarm	ENum	No			0=Healthy, 1=Alarm
9	AC Error Status	ENum	No			0=Healthy, 1=Alarm
10	Boiler Status	ENum	No			0=Healthy, 1=Alarm

Page 47 can be set with the following optional miscellaneous controls:

Object	Label	Type	Adjust	High Limit	Low Limit	Type ENum Alternatives
1	Custom On/Off 1	OffOn	Yes			
2	Custom On/Off 2	OffOn	Yes			
3	Custom On/Off 3	OffOn	Yes			
4	Custom On/Off 4	OffOn	Yes			
5	Custom On/Off 5	OffOn	Yes			
6	Custom On/Off 6	OffOn	Yes			
7	Custom On/Off 7	OffOn	Yes			
8	Custom On/Off 8	OffOn	Yes			
9	Custom On/Off 9	OffOn	Yes			
10	Custom On/Off 10	OffOn	Yes			

Document Versions

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Next Steps…

If you require help, contact support on 01273 694422 or visit *www.northbt.com/support*

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