

# VYKONStat

Generation 2 Vykon Wireless Thermostat and  
Improved Niagara AX Driver

# What Is Generation 2?

- Improved Thermostat Communication Card Software
- Increased set of available thermostat Objects

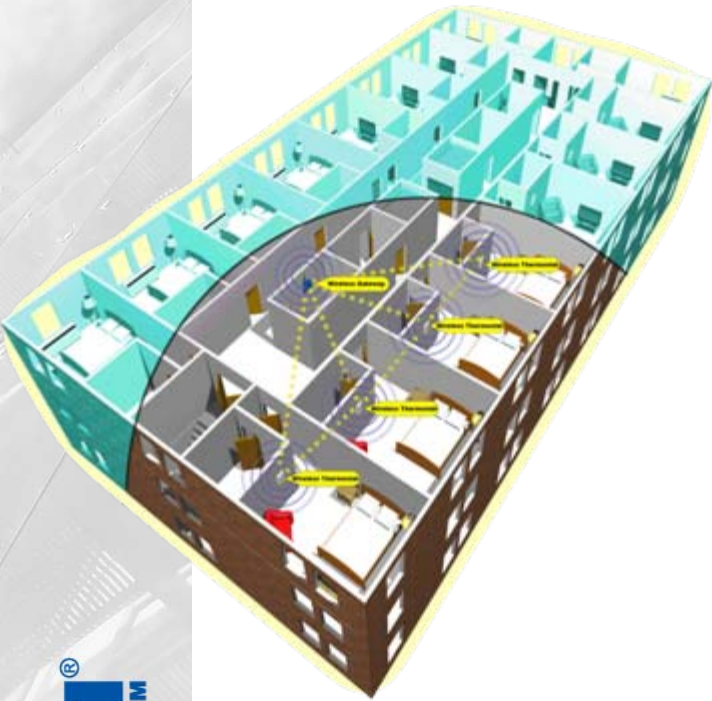
(see driver guide 028-6018 R1 Issue Date: June 15, 2010 for Read/Write table)

- Backwards Compatible with Gen1 VWG-40 platform
- Same physical size and location on thermostat, card tagged according to generation



# Generation 2 Compatibility

Compatible to current V(T/TR/Z)7000 series wireless thermostats product line



- Fan coil units - VT73XX (F/C)
- Staging RTU- VT76XX(A/B)
- Heatpump – VT76XX(H)
- Simple area zoning – VT72XX(F/C)
- Line Voltage Fan Coil – VTR
- Zoning System - VZ72, VZ76

# Generation 2 Compatibility

## Generation 1:

**Release 1, June 2009**

**Associated Jar Files Revision:** WirelessStat.jar

**Revision Level:** 2.1, 2.1.1, 2.1.2, 3.1.3

**Associated Displayed Driver Name:** WirelessStatNetwork

## Compatible Device Identification:

- Compatible VT7200 Series zone wireless controllers are identified with wireless module 051-0021 Rx
- Compatible VT7300 Series FCU wireless controllers are identified with wireless module 051-0021 Rx
- Compatible VT7600 Series staging wireless controllers are identified with wireless module 051-0022 Rx

# Generation 2 Compatibility

**Generation 2:**

**Release 2, September 2010**

**Associated Jar Files:** WirelessTstat.jar, WirelessTstatDevices.jar

**Revision Level:** 4.0

**Associated Displayed Driver Name:** WirelessTstatNetwork

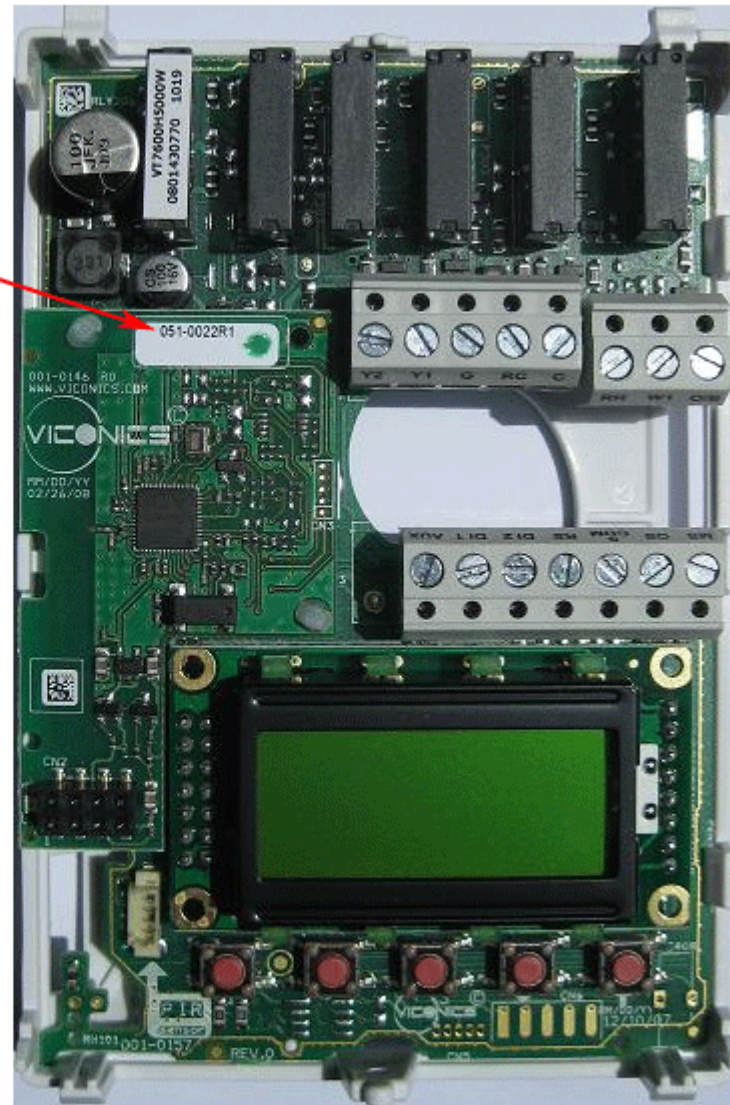
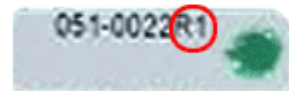
## **Compatible Device Identification:**

- Compatible VT7200 Series zone wireless controllers are identified with wireless module 051-0083 Rx
- Compatible VT7300 Series FCU wireless controllers are identified with wireless module 051-0083 Rx
- Compatible VT7600 Series staging wireless controllers are identified with wireless module 051-0083 Rx
- Compatible VTR7300 Series FCU wireless controllers are identified with wireless module 051-0083 Rx
- Compatible VZ7200 Series zone wireless controllers are identified with wireless module 051-0070 Rx
- Compatible VZ7600 Series RTU wireless controllers are identified with wireless module 051-0071 Rx

# Revision Number Location

The wireless communication module revision number is located on the upper right hand side of the communication module

The Device shown is a Release 1 VT7600  
(Note the part number followed by R1)

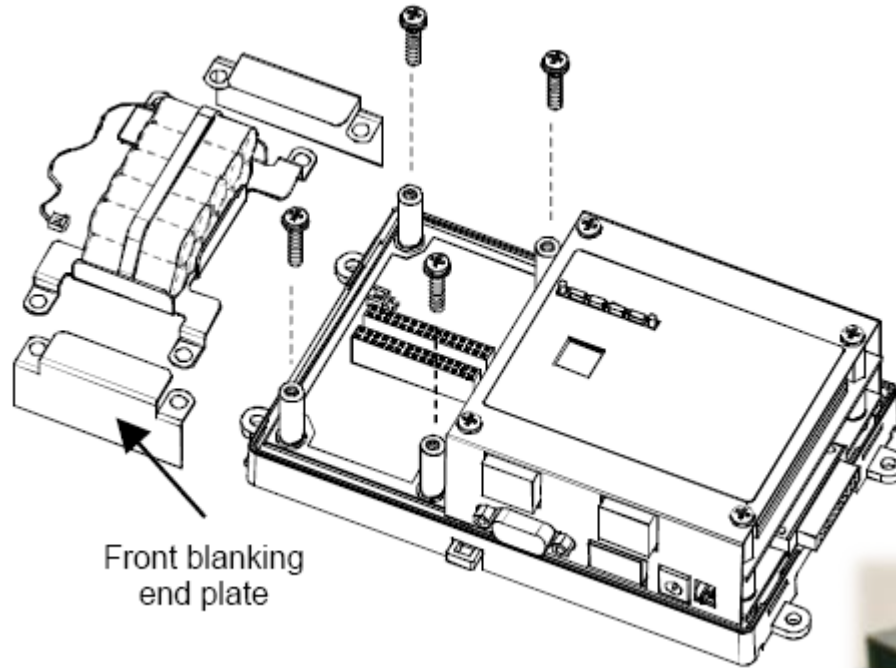


# Improved Jace Option Card

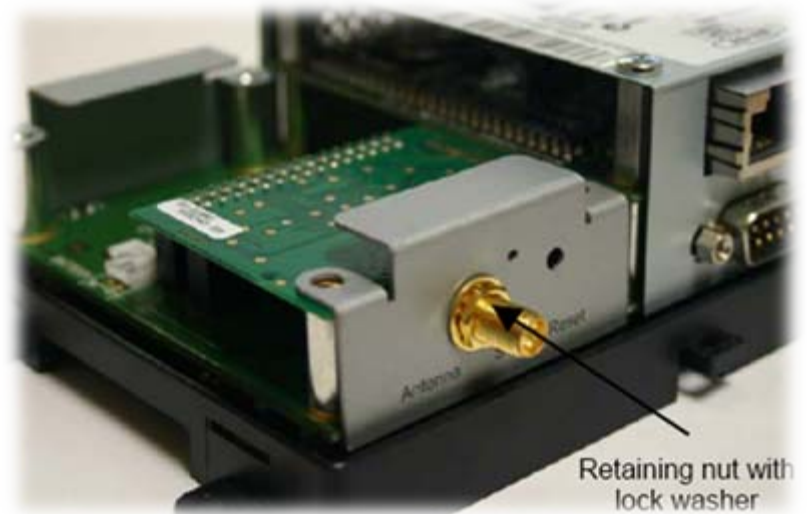
- Jace Option Card VWG-APP-1028  
Wireless communication card and newly updated WirelessTstatNetwork driver file have been specifically designed to be used by the Niagara AX® powered Jace controllers
- When utilized in conjunction with the wireless communicating thermostats, it offers the Niagara AX® integrator a simple way to integrate using the familiar Workbench tool set
- Improved distance
- Supports 50 devices (JACE 2)



# Available Jace option card



Front blanking  
end plate



Retaining nut with  
lock washer



# Newly updated driver feature set

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- Standard Niagara<sup>AX™</sup> tuning policies
- Standard Niagara<sup>AX™</sup> device and object health index
- Typical Niagara<sup>AX™</sup> device & object manager
- Allows use of all Workbench<sup>AX™</sup> “standard” features
- Enables recycling of your existing device templates

# Physical Layer Settings

The screenshot displays the Niagara Workbench interface for configuring the Physical Layer settings of a WirelessStatNetwork. The left sidebar shows a tree view with 'WirelessStatNetwork' selected under 'Drivers'. The main window shows the configuration details for this network.

**WirelessStatNetwork (Wireless Stat Network)**

- Status: {ok}
- Enabled: true
- Fault Cause: {empty}
- Health: Ok [16-Apr-10 10:30 AM EDT]
  - Down: false
  - Alarm: false
  - Last Ok Time: 16-Apr-2010 10:30 AM EDT
  - Last Fail Time: 16-Apr-2010 10:22 AM EDT
  - Last Fail Cause: Timeout while waiting for comm module re
- Alarm Source Info: Alarm Source Info
- Monitor: Wireless Stat Ping Monitor
- Tuning Policies: Tuning Policy Map
  - Default Policy: Tuning Policies
- Poll Scheduler: Wireless Stat Poll Scheduler
- Retry Count: 1
- Response Timeout: 00000h 00m 03.000s [0ms - 3sec]
- Serial Port Config: Serial port configuration
  - Status: {ok}
  - Port Name: COM1
- Cov Manager: Wireless Stat Cov Manager
  - Cov Enabled: true
  - Statistics Start: 16-Apr-2010 10:22 AM EDT
  - Average Poll: 26.16ms
  - Busy Time: 0% (968ms/490sec)
  - Total Polls: 37 over 968ms
- Wireless Parameters Config: Zigbee parameters configuration
  - Status: {ok}
  - Zigbee Pan Id: 35 [0 - 500]
  - Zigbee Channel: 12 [10 - 26]
- Communication Module Info: Coordinator Communication Module Information
  - Zigbee Module Major Version: 2
  - Zigbee Module Minor Version: 0
  - Hardware Revision: 4
- Address Info: Coordinator Address Information
  - Zigbee Address: 00 00
  - IEEE Address: 00 1d 35 08 01 27 07 46

Buttons: Refresh, Save

# Device Properties & Settings

The screenshot displays the Niagara Workbench interface. The main window shows the configuration for a device named 'VT7350F5x00W\_91 (Wireless Stat Device)'. The interface is divided into several sections:

- Nav (Navigation):** A tree view on the left showing the project structure, including 'My Network', 'Drivers', 'NiagaraNetwork', and 'WirelessStatNetwork'. The selected device is highlighted.
- Palette:** A list of components on the left, including 'alarm', 'AlarmService', 'MemoryAlarmService', 'AlarmClass', 'ConsoleRecipient', 'StationRecipient', 'LinePrinterRecipient', and 'Extensions'. 'alarm' is selected.
- Property Sheet:** The main area on the right displays the configuration for the selected device. It includes sections for:
  - Status:** Status (ok), Enabled (true), Fault Cause.
  - Health:** Health (OK [16-Apr-10 10:35 AM EDT]), Down (false), Alarm (false), Last Ok Time (16-Apr-2010 10:35 AM EDT), Last Fail Time (16-Apr-2010 10:34 AM EDT), Last Fail Cause (Ping error: Thermostat address not in ta).
  - Alarm Source Info:** Alarm Source Info.
  - Device Info:** Device Model Information.
  - Address Info:** Device Address Information, Address (91 [1 - 255]), Zigbee Address (00 01), I E E E Address (00 1d 35 19 71 ec 1e 54).
  - Communication Module Info:** Device Communication Module Information, Zigbee Module Major Version (0), Zigbee Module Minor Version (0), Hardware Revision (0).
  - Wireless Signal Info:** Wireless Signal Transmission Quality, C R S S (0 % [0 - 100]), T R S S (0 % [0 - 100]).
  - Points:** Wireless Stat Point Device Ext, including Room Temperature, Room Temperature Override, Outdoor Temperature, Outdoor Temperature Override, Supply Temperature, Room Humidity, Room Humidity Override, Occupancy Command, Effective Occupancy, Occupied Cooling Setpoint, Occupied Heating Setpoint, Stand-By Cooling Setpoint, Stand-By Heating Setpoint, Unoccupied Cooling Setpoint, and Unoccupied Heating Setpoint.
- Buttons:** 'Refresh' and 'Save' buttons are located at the bottom right of the property sheet.

# New peripheral products

**VST5000W5028W**

## Field Wireless Survey Tools

Technical Literature:

VYKONStat Wireless Survey Tool User Guide



**VRP5000W1028W**

## Wireless Repeater

Technical Literature:

VYKONStat Wireless Repeater Application Guide