



# Tracer<sup>®</sup> SC+ Building Automation System

with Tracer<sup>®</sup> Synchrony<sup>™</sup> User Interface



# Tracer® SC+ BAS

## Connect to your building's highest potential

Buildings are full of hidden potential to be more comfortable, more sustainable, and more influential to your mission. Tracer SC+ taps into this potential by making the connections between technology and people more intuitive and complete.

### CONSISTENCY + CUSTOMIZATION

Tracer SC+ is designed to deliver high performance systems, consistently. Trane delivers its proven systems knowledge to every job through comprehensive, factory engineered applications. These applications improve quality and are fully-documented to simplify ongoing operations and service. Each application is customizable to allow for fine-tuning to meet the unique needs of each job.

### EXISTING + FUTURE

Tracer SC+ includes support for equipment from all generations. Built on a foundation of open, industry-standard protocols, including BACnet, LonTalk, and Modbus, Tracer SC+ provides robust support for Trane and non-Trane equipment.

Legacy Trane and non-Trane proprietary equipment can be integrated through a simple communications bridge, allowing you to replace legacy equipment on a schedule that fits your budget.

### FLEXIBLE + OPTIMIZED

Trane has the ability to go significantly beyond traditional HVAC systems to optimize comfort and lifecycle costs. Lighting systems, energy meters, VFDs and more can be utilized to provide more advanced algorithms. Tracer SC+ provides a robust backbone for even the most complex systems.

## Join the age of the smart building.

Built-in, regularly-updated IT standards help you move forward with confidence. Once Tracer SC+ is installed, we can help you optimize your building using data-driven operations, cloud analytics and Intelligent Services. Connected buildings are more responsive to occupants and set new standards for sustainability.

### TECHNICAL ADVANTAGES



Tracer SC+ supports BACnet (wired and wireless), LONTalk® and Modbus®.

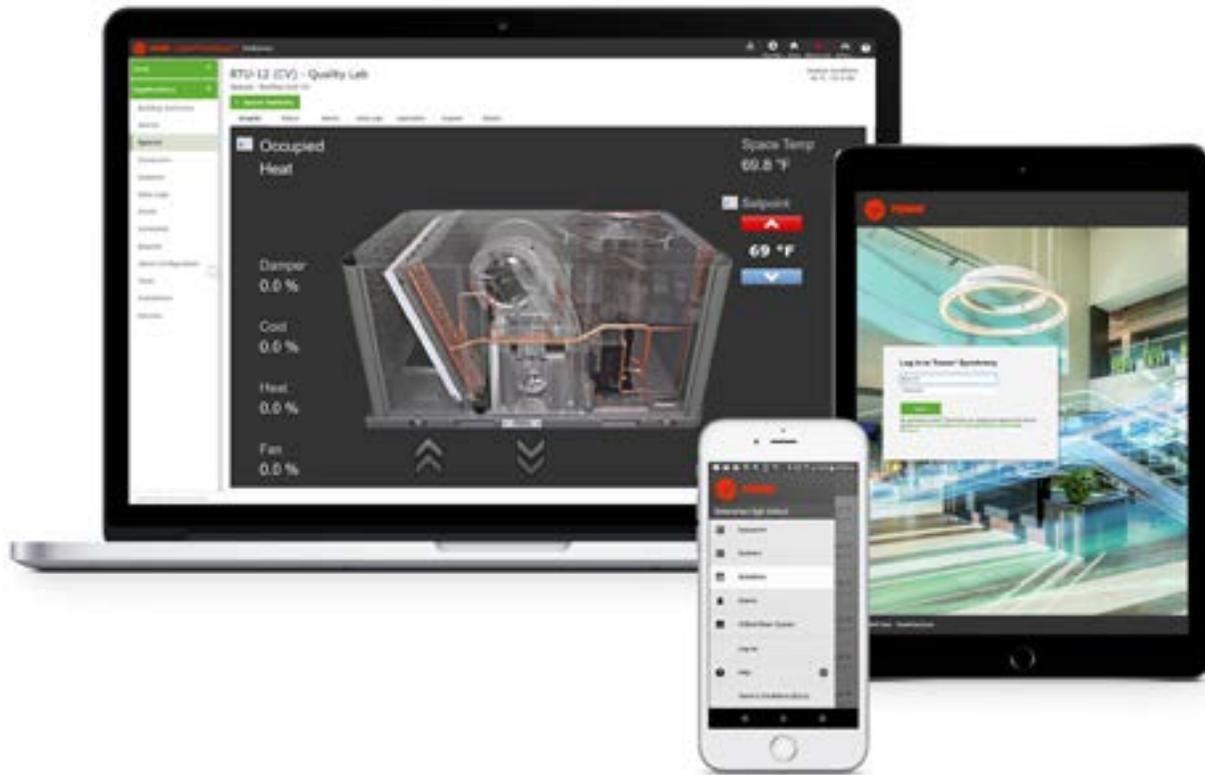


Tracer® Synchrony™ works with the technology you use every day, including phones, tablets and PCs.



# Tracer® Synchrony™ User Interface

The Tracer Synchrony user interface is so easy to navigate and use, it keeps the full potential of Tracer SC+ accessible—forever—by eliminating the need for repeated operator training. Even experienced operators will find they can do more: Tasks that used to be complex have been simplified into a few intuitive clicks.



Common tasks are supported through streamlined space, equipment, and application pages



Standard equipment graphics depict status through animations



Where tasks get more complicated, there's instant online help



Floorplans and dashboards can simplify interaction with the system



Historical data is captured out of the box to ensure it's available when you need it



Keeping your automation system automated has never been simpler with features that include temporary overrides



Full capabilities are accessible by web browser, or by smart phone via the BAS Operator Suite mobile app

Different users have different needs.  
Trane has an option for everyone.



✓ Tracer® Concierge™

Provides limited access for non-technical users to make simple adjustments, such as setpoint changes and schedule overrides.



✓ Tracer® Synchrony™

The built-in user interface for Tracer SC+ provides full system access for facilities managers and service technicians.



✓ Tracer® Ensemble™

Designed for building management professionals, it provides advanced tools that enable users to make more informed decisions on how to run their facilities more proactively.

Learn more at [trane.com](http://trane.com)



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

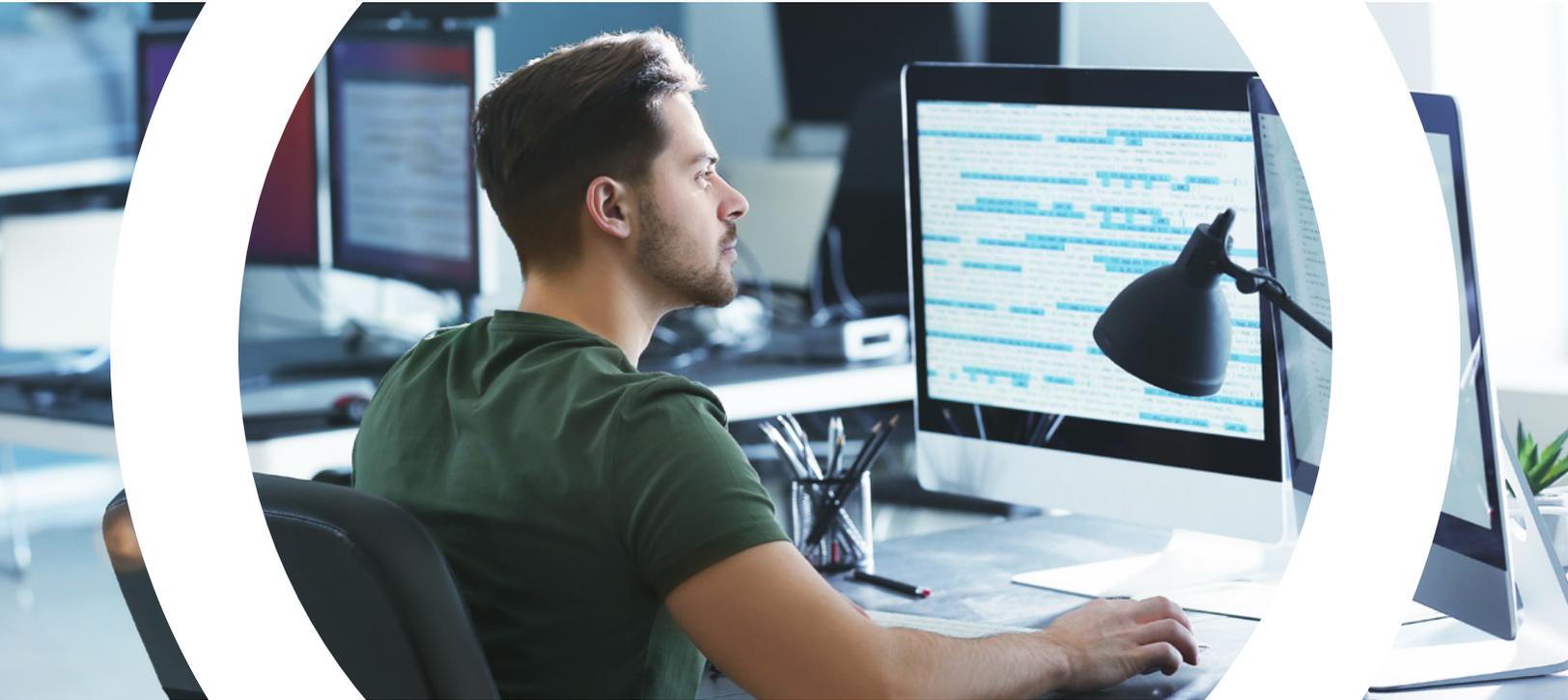
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BAS-SLB086-EN  
04/24/2020

# Tracer<sup>®</sup> SC+

Highlighted Features by Release



Trane<sup>®</sup> is committed to continuous product improvement, helping ensure that we can provide solutions to our customers' evolving needs. We have summarized our release notes into a few key points from each version, highlighting the latest and greatest additions. We strive to deliver excellence in four main areas with each update:



## Cybersecurity

New features that follow best practices for addressing vulnerabilities or add new security-related features and enhancements.



## Compatibility

With constantly evolving browsers, phones, PCs, tablets, etc.



## Productivity

New features that help an operator perform their duties more effectively.



## Optimization

New ways to add automation to improve comfort, energy efficiency, etc.

## Drive to your Digital Destiny.

Tracer<sup>®</sup> SC+ Building Automation Systems offer secure remote access for users as well as ongoing optimization opportunities for their buildings. Tracer<sup>®</sup> Synchrony<sup>®</sup> offers full, intuitive system access, and productivity enhancements for facility managers and service technicians.

## Version 5.5 – December 2020

Feature	Benefit
Support for Trane® USB Cellular Module	<ul style="list-style-type: none"> <li>• This module simplifies connectivity to the Trane Cloud for Remote Access and Data Collection that enables Trane Intelligent Services. This module simplifies installation (single USB connection) and security (private Verizon® network) vs. other competitive solutions.</li> </ul>
Support for Trane USB Wi-Fi Module	<ul style="list-style-type: none"> <li>• This module adds network flexibility to Tracer SC+. Tracer SC+ can function as a Client or an Access Point – enabling:               <ul style="list-style-type: none"> <li>- Tracer SC+ to connect to an existing Access Point.</li> <li>- Tracer SC+ to connect to another Tracer SC+ without an external Access Point.</li> <li>- Trane external touchscreen displays to connect to the Tracer SC+ without an external Access Point.</li> <li>- Technicians to connect directly to Tracer SC+ without an external Access Point.</li> </ul> </li> </ul>
Demand Management (new) Application	<ul style="list-style-type: none"> <li>• Tracer® SC+ Demand Management Application supports integrated Demand Limiting.</li> <li>• Demand Response to utility signaling for use with Gridflex.               <ul style="list-style-type: none"> <li>- This application helps to directly support energy targets and can decrease demand charges, commonly 30-70% of a commercial building's energy bill.*</li> </ul> </li> <li>• Tracer® Synchrony® allows users to configure common demand limiting strategies - without the need to utilize a separate programming tool.               <ul style="list-style-type: none"> <li>- Examples include changing space temperature setpoints, resetting outdoor air ventilation, or current limiting a chiller.</li> </ul> </li> <li>• Application page allows for configuration and descriptive status to simplify understanding of the sequence.</li> </ul>
New Custom Views feature replaces Custom Values Table	<ul style="list-style-type: none"> <li>• Significantly enhanced functionality begged for a name change.</li> <li>• Custom Views allows a Tracer Synchrony user to quickly create a table of information that helps simplify common tasks.</li> <li>• A new wizard, column customization, Overrides, and multiple points/properties per equipment/space make this feature much more valuable.</li> </ul>
Air-Fi® Sensor Improved Functionality	<ul style="list-style-type: none"> <li>• Streamlined setup for monitoring sensors and associating them with equipment.</li> </ul>
Support Files can now be linked	<ul style="list-style-type: none"> <li>• Files can be associated to a specific device to lower search time for a specific document.</li> <li>• Links allow interaction from graphics, and navigation tree.</li> </ul>
Trim/Respond chart enhancements	<ul style="list-style-type: none"> <li>• Several improvements based upon user suggestions to the Trim/Respond chart.</li> </ul>
Data Logs – Change of Value (COV) support	<ul style="list-style-type: none"> <li>• User created data logs can now be configured to gather data based upon a value change or a configured time interval.</li> </ul>
Miscellaneous Enhancements	<ul style="list-style-type: none"> <li>• Miscellaneous features may have been added and/or enhanced.</li> <li>• For the protection of our customers, each Tracer® SC+ release may contain non-specified, security-related enhancements.               <ul style="list-style-type: none"> <li>- These enhancements may be related to open-source or Trane software and may result from Trane, Trane partner, or non-Trane testing/analysis.</li> </ul> </li> </ul>

## Version 5.4 – July 2020

Feature	Benefit
Integration of Trane® / Mitsubishi VRF via XML/IP	<ul style="list-style-type: none"> <li>• Tracer® SC+ now supports advanced integration of Mitsubishi VRF systems.</li> <li>• Integration has the same look and feel as Tracer® Synchrony® and includes data, graphics, alarms, and datalogs for indoor and outdoor units as well as branch controllers.</li> </ul>
Customization of Factory Equipment Graphics	<ul style="list-style-type: none"> <li>• Users can customize a Factory Equipment Graphic by adding and/or removing desired datapoints.</li> <li>• This allows users to benefit from Factory Equipment Graphics while also customizing desired data points.</li> </ul>
Miscellaneous Enhancements	<ul style="list-style-type: none"> <li>• Miscellaneous features may have been added and/or enhanced.</li> <li>• For the protection of our customers, each Tracer® SC+ release may contain non-specified, security-related enhancements.               <ul style="list-style-type: none"> <li>- These enhancements may be related to open-source or Trane software and may result from Trane, Trane partner, or non-Trane testing/analysis.</li> </ul> </li> </ul>

## Version 5.3 – May 2020

Feature	Benefit
Edit templates for multi-equipment devices	<ul style="list-style-type: none"> <li>• User can now edit templates for multiple pieces of physical equipment that are controlled by a single unit controller.</li> </ul>
IPv6 Ethernet Communication	<ul style="list-style-type: none"> <li>• Tracer® SC+ now supports IPv6 communications to ensure compatibility with IT requirements.</li> </ul>
Miscellaneous Enhancements	<ul style="list-style-type: none"> <li>• Miscellaneous features may have been added and/or enhanced.</li> <li>• For the protection of our customers, each Tracer® SC+ release may contain non-specified, security-related enhancements.               <ul style="list-style-type: none"> <li>- These enhancements may be related to open-source or Trane software and may result from Trane, Trane partner, or non-Trane testing/analysis.</li> </ul> </li> </ul>

\*Nrel.gov. 2017. Identifying Potential Markets for Behind-the-Meter Battery Energy Storage: A Survey of U.S. Demand Charges.

## Version 5.2 – August 2019

Feature	Benefit
Active Directory support	<ul style="list-style-type: none"> <li>• Enables users to authenticate with their company credentials</li> </ul>
Trim and Respond Application	<ul style="list-style-type: none"> <li>• Support for common ASHRAE® Guideline 36 sequences.</li> <li>• Tracer® Synchrony® allows users to configure common reset strategies utilizing standard and custom rulesets - without the need to utilize a separate programming tool.               <ul style="list-style-type: none"> <li>- Examples include Duct Static Pressure Optimization &amp; Discharge Air Temperature Reset.</li> </ul> </li> <li>• Application page allows for configuration and descriptive status to simplify understanding of the sequence.</li> </ul>
Linear Reset Application	<ul style="list-style-type: none"> <li>• Tracer® Synchrony® allows users to configure linear reset strategies - without the need to utilize a separate programming tool.               <ul style="list-style-type: none"> <li>- Example includes resetting Discharge Air Temperature of an Air Handler based upon the Outdoor Air Temperature.</li> </ul> </li> <li>• Application page allows for configuration and descriptive status to simplify understanding of the sequence.</li> </ul>
Chiller Plant Control Application Enhancements	<ul style="list-style-type: none"> <li>• Multiple additions to SC+ to manage your chiller plant more efficiently without having to completely stop the current operation.</li> </ul>
BACnet Read/Write Values	<ul style="list-style-type: none"> <li>• A new point type that allows more flexibility in when points are read or written to.</li> <li>• Enables additional data points to be read/written by external Workstations (e.g., Tracer® Ensemble®).</li> </ul>
Global Referencer Application Enhancements	<ul style="list-style-type: none"> <li>• A new option to update points based upon a conditional trigger.</li> <li>• Provides an additional mechanism for delivering calculated values to multiple recipients (e.g., Demand Limiting).</li> </ul>
Variable Air Systems (VAS) Application support for Staged Heat (Hybrid Change Over) systems	<ul style="list-style-type: none"> <li>• Added flexibility allows Tracer® SC+'s VAS application to support these systems without the need for custom programming.</li> </ul>
Miscellaneous Enhancements	<ul style="list-style-type: none"> <li>• Miscellaneous features may have been added and/or enhanced.</li> <li>• For the protection of our customers, each Tracer® SC+ release may contain non-specified, security-related enhancements.               <ul style="list-style-type: none"> <li>- These enhancements may be related to open-source or Trane software and may result from Trane, Trane partner, or non-Trane testing/analysis.</li> </ul> </li> </ul>

## Version 5.1 – November 2018

Feature	Benefit
Direct Air-Fi® sensor support	<ul style="list-style-type: none"> <li>• Allows for Air-Fi® sensors to communicate directly with an SC+, eliminating the need for installation into a Unit Controller first.</li> </ul>
Support files library	<ul style="list-style-type: none"> <li>• Use Tracer® Synchrony® to upload and view support files. These files can be associated with equipment and spaces, keeping important and useful information readily available.</li> </ul>
Custom Values Table on Tracer® Synchrony®	<ul style="list-style-type: none"> <li>• Provides a simple way to view tabular data without the need to create a custom graphic or navigation to multiple individual pages.</li> </ul>
Simplified Data Log Creation	<ul style="list-style-type: none"> <li>• Easy creation for data collection of multiple points at the same time.</li> <li>• Improved detection of duplication, allowing user to replace or duplicate if desired.</li> </ul>
Data Log Graph Improvements	<ul style="list-style-type: none"> <li>• Specific data for each data log is shown on hover.</li> <li>• Legend has been re-located to avoid overlapping relevant data.</li> <li>• Default colors changed to improve interaction for vision/color impaired users.</li> </ul>
Alarm Mass Point Edit	<ul style="list-style-type: none"> <li>• Improved process for editing alarm configurations for multiple points, controllers, and applications in one simple action.</li> </ul>
Miscellaneous Enhancements	<ul style="list-style-type: none"> <li>• Miscellaneous features may have been added and/or enhanced.</li> <li>• For the protection of our customers, each Tracer® SC+ release may contain non-specified, security-related enhancements.               <ul style="list-style-type: none"> <li>- These enhancements may be related to open-source or Trane software and may result from Trane, Trane partner, or non-Trane testing/analysis.</li> </ul> </li> </ul>

## Version 5.0 – February 2018

Feature	Benefit
Support for Tracer® SC+ Hardware	<ul style="list-style-type: none"> <li>• Improved application &amp; user interface performance.</li> <li>• Provides an additional RS485 port for additional BACnet® MS/TP &amp; Modbus® RTU flexibility.</li> <li>• Supports XM30/XM32 modules to simplify transition from BCU and non-Trane controls.</li> <li>• Support for up to 4 USB accessories, including Trane USB Wi-Fi module, Trane USB Cellular Module, U60 LonTalk® adapter.</li> <li>• Support for Micro SD (backup/restore) and coin cell battery (date/time retention).</li> <li>• A simple, drop-in, replacement for existing Tracer® SC installations.</li> </ul>
New Tracer® Synchrony® User Interface	<ul style="list-style-type: none"> <li>• Improved page and data loads vs. Tracer® SC user interface.</li> <li>• Improved touch-friendly features to support Phones &amp; Tablets more seamlessly.</li> <li>• Login page customization.</li> <li>• The ability to perform firmware updates through Tracer® Synchrony® without the need for an external service tool.</li> <li>• Consistent with Tracer Ensemble User Interface for user familiarity.</li> </ul>
Miscellaneous Enhancements	<ul style="list-style-type: none"> <li>• Miscellaneous features may have been added and/or enhanced.</li> <li>• For the protection of our customers, each Tracer® SC+ release may contain non-specified, security-related enhancements.               <ul style="list-style-type: none"> <li>- These enhancements may be related to open-source or Trane software and may result from Trane, Trane partner, or non-Trane testing/analysis.</li> </ul> </li> </ul>



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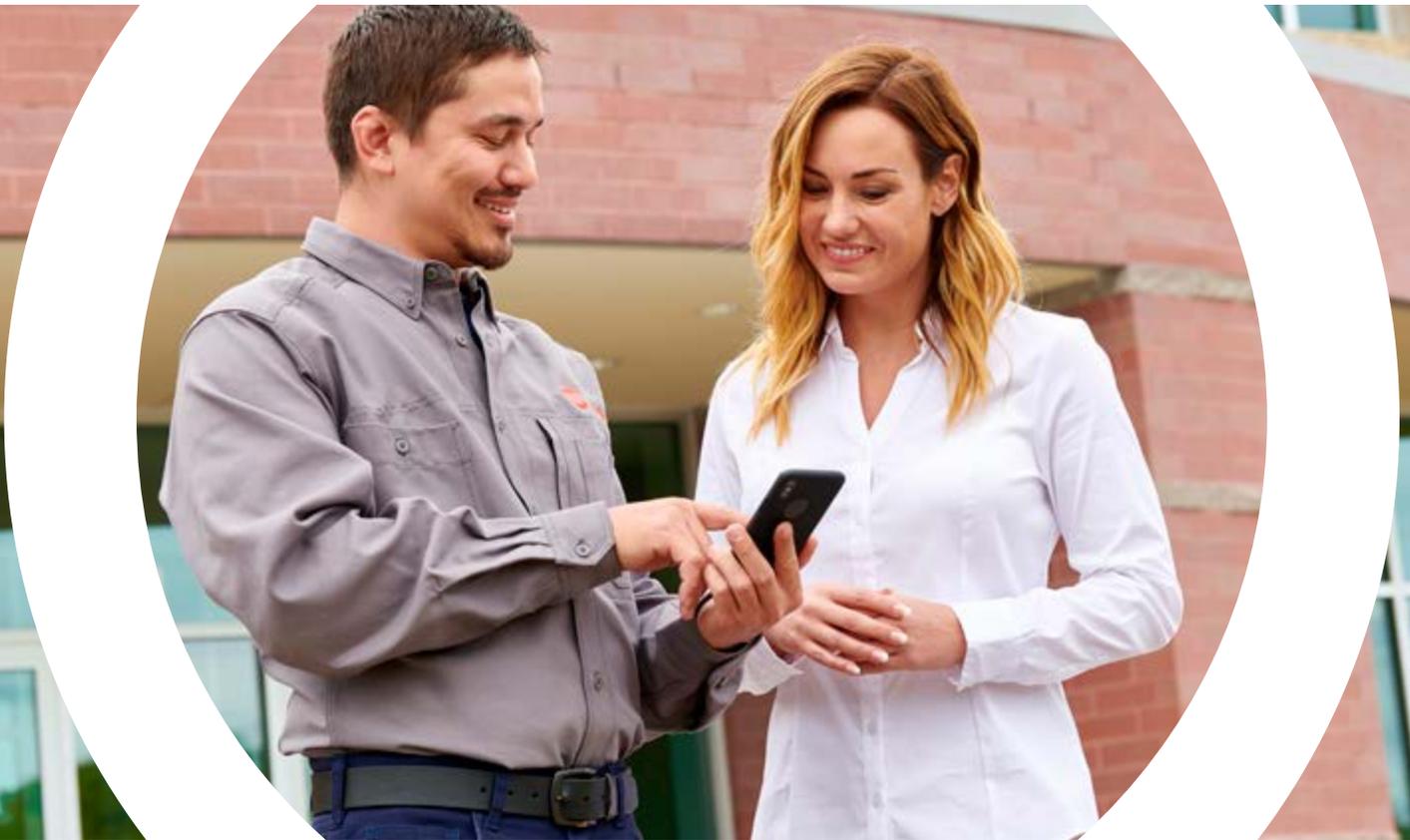
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BAS-SLB131-EN  
07/14/2021



# Trane® Pivot™ Smart Thermostat

Turn your building into an advantage



# Trane Makes it Easy to Pivot™

## It's never been easier to manage comfort while running your business

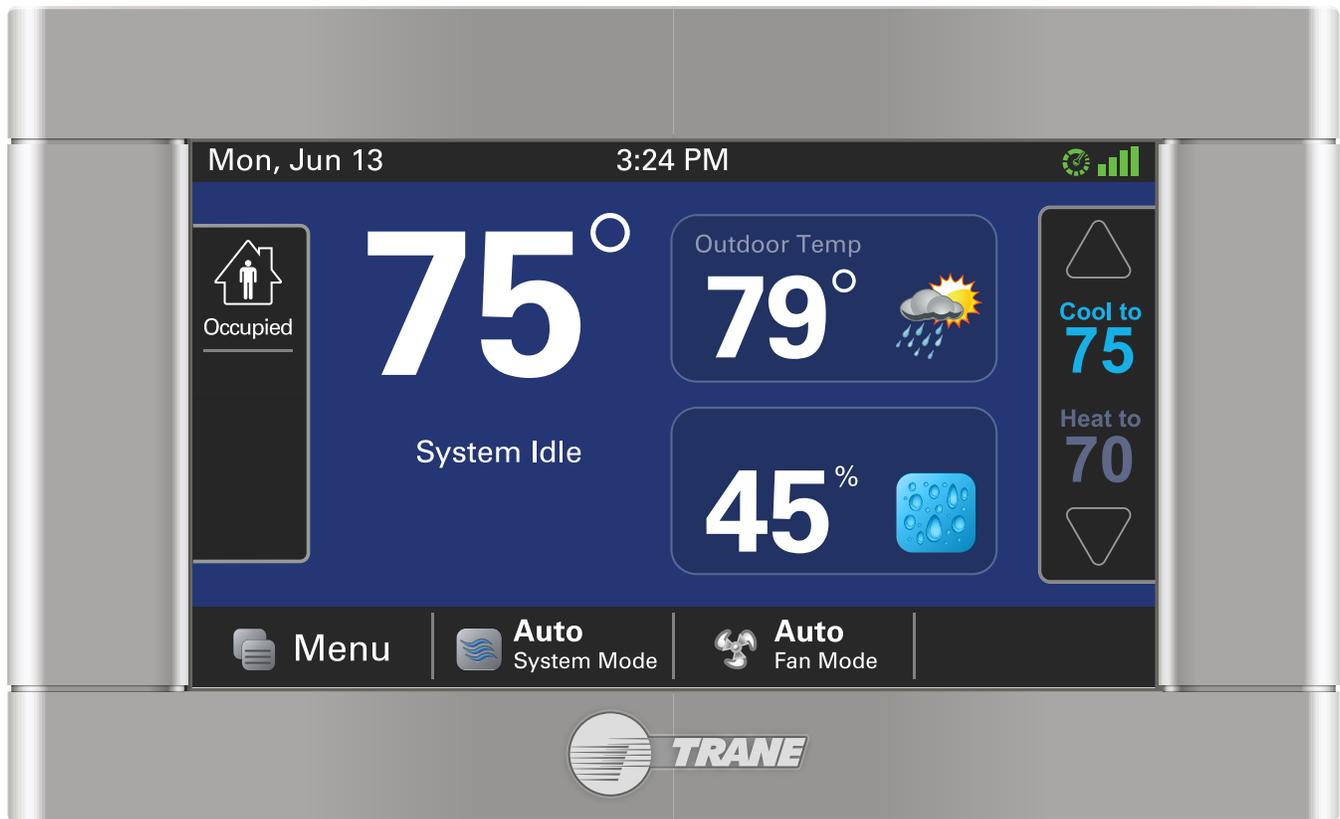
Your business has big aspirations, and the comfort of your buildings plays a more important role than you might think: Comfort boosts employee productivity. It can elevate sales, and even build customer loyalty and repeat business.

The Trane® Pivot™ smart thermostat makes it easy to maintain an ideal environment that works for you. Commercial features enable you to manage comfort as a natural part of your day. Pivot even provides the ability to control multiple buildings, so business can thrive in every location.

## Improve comfort while saving energy

Pivot helps you keep occupants comfortable, while conserving energy after hours or when the building is not occupied. It accommodates a seven-day programmable schedule with up to six events (schedule changes) per day. With more scheduling flexibility and setback periods, you can maximize energy savings.

- Occupants can make minor temperature adjustments within set limitations
- Pivot automatically adjusts the way HVAC equipment operates based on outdoor weather conditions
- Control multiple buildings easily: Pivot allows you to group schedules and settings
- Temporary schedule overrides are easy, and programmed settings are automatically restored
- Optimal Start and Optimal Stop enable the system to predict when it should start in order to reach the desired temperature set point at a scheduled time, while using the least amount of energy



Using Pivot becomes second nature in no time at all.

The customizable touchscreen is incredibly easy to master.

## Control anywhere via the mobile app

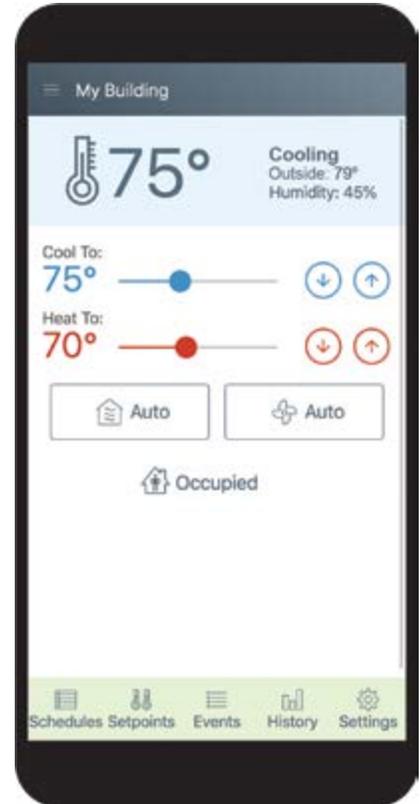
The Pivot™ mobile app provides remote access, giving you peace of mind that systems are running as expected, even when you can't be on site.

- Modify the schedules of multiple thermostats at the same time
- View the status of multiple thermostats from one screen on your tablet or phone

### Choose Trane for the future

Trane® goes beyond to maximize performance and sustainability in buildings around the world. We transform building environments with unmatched expertise and digitally-driven solutions to give you precise, measurable, digital control that makes your buildings spaces where people can thrive.

Pivot goes everywhere with a mobile app



## Connect with your mechanical contractor.

Make an action plan for HVAC system emergencies. With your approval, your service contractor can connect to your systems through a secure portal. If your building is unusually warm or cold, or the rooftop equipment starts acting up, your contractor can remotely access system information and begin troubleshooting.

The Pivot contractor portal provides valuable insight that may help prevent unnecessary truck rolls. If a service visit is necessary, technicians will know in advance which parts they'll need to make the repairs and restore comfort as quickly as possible.

Learn more at [trane.com](https://trane.com)



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BAS-SLB084-EN  
06/16/2020



# Trane Tracer Ensemble Scheduling Services



## Your enterprise-wide building management solution

Are you struggling with after-hours requests? Trane Tracer® Ensemble™ Scheduling Services allows building owners to tie scheduling requests directly to their building control system for enhanced energy management. Your system can respond 24 hours a day to inquiries for after-hours control of heating, ventilating, air-conditioning (HVAC) and lighting in specific areas of a building — resulting in improved comfort. Enable, record and invoice individual groups or organizations for after-hours use of their space with Tracer Ensemble software.

# A smart business decision.

Building management using the Trane Tracer® Ensemble™ system offers many business advantages. You can improve productivity through automatic tracking, as you reduce equipment use and realize greater energy savings through more efficient scheduling. Plus you can make your occupants more aware of their energy use, while also empowering them to control the comfort level of their environment — preserving capital equipment and spending less time entering scheduling overrides.

## Managing your buildings with a Trane Tracer Ensemble system has numerous advantages:

- Installation is easy using plug-and-play setup for Trane legacy or new controls.
- System flexibility lets you customize normal hours, minimum overrides and usage rates for each area.
- Users can log in on their mobile device and enter their own requests for both immediate and future needs.
- Users can choose the duration and the area or areas they wish to request.
- Usage reports can be customized and exported for each group or organization.
- Users and property managers can receive email acknowledgments for all requests.
- Users can enter comments to record why the request was made.
- Users can be given the option to change the comfort setting on the areas for which they have access directly from their user interface.
- Tracking options include requested hours, meter usage, and fixed charges.



## Easy setup and operation

The Trane Tracer Ensemble system offers a fully integrated scheduling solution that sets up easily to deliver optimized building control and comfort for users, while enabling building owners to increase building efficiency and allocate operating costs based on use.

## After-hours management and audit trail

Users now have scheduling flexibility, enabling them to request added service beyond their regular needs. And building owners have an audit trail, allowing them to see which user made the request, date, time and duration of the request, usage generated, and more.

## User interface

A simple, mobile-friendly interface allows users to make requests for immediate and future service from any device. This empowers users to easily control the comfort of their space, improving satisfaction.

## Built-in tracking

Scheduling Services has usage reports and tracking built directly into the application. Since it is not a third-party add-on solution, it offers building owners convenience, speed and accuracy.



## Security

Tracer Ensemble can be installed on a customer's network or be purchased as a cloud-based service. Users receive secure and limited access to only specific areas of the building and must provide their username and password before making a request or change.

Contact your local Trane office for a free demonstration today,  
or visit [trane.com/tracerensemble](https://trane.com/tracerensemble) for more information.



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# Trane Tracer Ensemble Tenant Services



## Your enterprise-wide building management solution

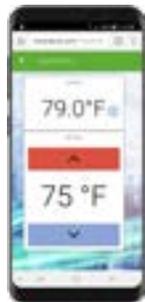
Are you struggling with after-hours requests from tenants? Trane Tracer® Ensemble™ Tenant Services™ allows building owners to tie tenant requests directly to their building control system for enhanced energy management. Your system can respond 24 hours a day to tenant inquiries for after-hours control of heating, ventilating, air-conditioning (HVAC) and lighting in specific areas of a building — resulting in improved tenant comfort. Enable, record and invoice individual tenants for after-hours use of their space with Tracer Ensemble software.

# A smart business decision.

Building management using the Trane Tracer® Ensemble™ system offers many business advantages. You can improve productivity through automatic tracking and billing, as you reduce equipment use and realize greater energy savings through more efficient scheduling. Plus you can make your tenants more accountable for their energy use, while also empowering them to control the comfort level of their environment — leading to greater tenant retention and preservation of capital equipment.

## Managing your buildings with a Trane Tracer Ensemble system has numerous advantages:

- Installation is easy using plug-and-play setup for Trane legacy or new controls.
- System flexibility lets you customize normal hours, minimum overrides and billing rates for each tenant.
- Tenants can log in on their mobile device and enter their own requests for both immediate and future needs.
- Employees can choose the duration and the area or areas they wish to request.
- Invoices can be customized and exported for each tenant.
- Tenants and property managers can receive email acknowledgments for all requests.
- Users can enter comments to record why the request was made.
- Tenants can be given the option to change the comfort setting on the areas they have been given access to directly from their tenant interface.
- Billing options include requested hours, meter usage, and fixed charges.



## Easy setup and operation

The Trane Tracer Ensemble system offers a fully integrated tenant solution that sets up easily to deliver optimized building control and comfort for tenants, while enabling building owners to increase building efficiency and allocate operating costs based on use.

## After-hours management and audit trail

Tenants now have scheduling flexibility, enabling them to request added service beyond their regular needs. And building owners have an audit trail, allowing them to see which tenant made the request, date and hours of the request, usage generated, and more.

## Tenant interface

A simple, mobile-friendly interface allows tenants to make requests for immediate and future service from any device. This empowers tenants to easily control the comfort of their space, improving satisfaction and tenant retention.

## Built-in billing

Tenant Services™ is a revenue generator with invoicing built directly into the application. Since it is not a third-party add-on solution, it offers building owners convenience, speed and accuracy.



## Security

Tracer Ensemble can be installed on a customer's network or be purchased as a cloud-based service. Users receive secure and limited access to only specific areas of the building and must provide their username and password before making a request or change.

Contact your local Trane office for a free demonstration today, or visit [trane.com/tracerensemble](http://trane.com/tracerensemble) for more information.



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**\$15.3B**

The VRF market worldwide is projected to grow by \$15.3B between 2019-2025\*



HORIZON® DEDICATED OUTDOOR AIR SOLUTION (DOAS)    N-GEN CITY MULTI® SERIES    P SERIES    NV SERIES

## Full Suite

Trane provides access to a full suite of products to help design any project



**21.5%**

of contractors' commercial HVAC projects include VRF technology benefits



## 2-Pipe

A 2-pipe solution is reliable and scalable, and requires minimal service



## Savings

VRF provides an estimated 30% energy savings\*\*



## Tracer® SC+

Technology allows you to integrate and control several systems across multiple locations



## Training

Hands-on installation and certification training

## Smaller Footprint

Smaller footprints offer design flexibility and reduce installation complexity for commercial buildings of all shapes, sizes and uses



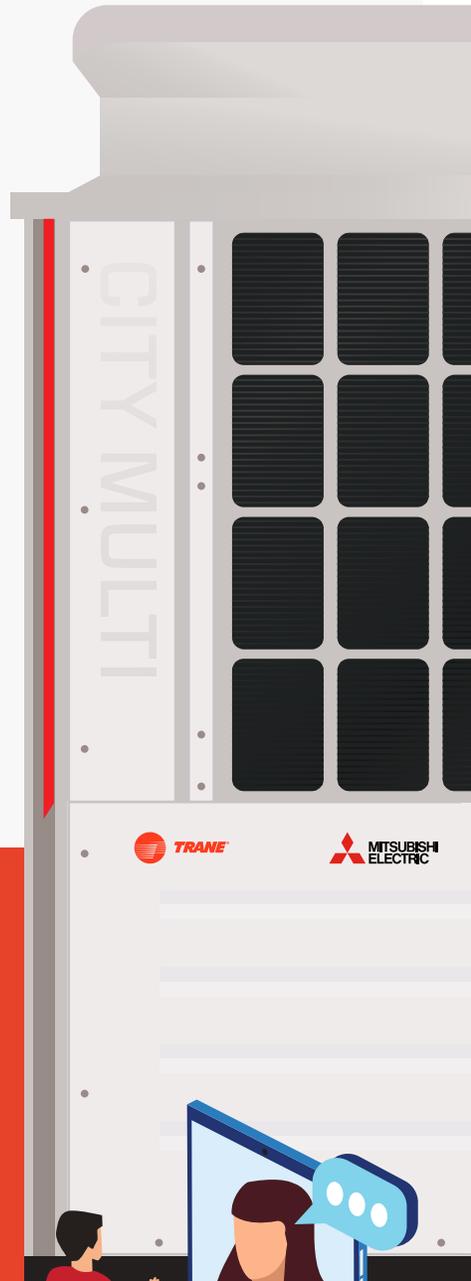
## Barriers

Low barrier to entry with quick individual changeover of units



## Support

Pre- and post-sales support from local industry experts



# HUNTON TRANE: Commercial Line Card



## TRANE EQUIPMENT AND SYSTEMS

- Complete line of light commercial, commercial, TR200 VFD's, industrial HVAC products and systems
- Energy analysis, HVAC training programs, systems application expertise

## TRANE BUILDING AUTOMATION

- Complete line of building automation solutions for large and small facilities
- Energy conservation solutions - IAQ, LEED, demand-side management
- Web based/networked systems

## BUILDING SERVICES

- OEM warranty service and support
- Performance based HVAC systems maintenance programs



## BALTIMORE AIRCOIL COMPANY

Factory assembled cooling towers, fluid coolers, adiabatic-cooled condensing units. [www.baltimoreaircoil.com](http://www.baltimoreaircoil.com)



## MITSUBISHI TRANE

Variable Refrigerant Flow Systems, ductless split systems. [www.metahvac.com](http://www.metahvac.com)



## VALENT AIR

Valent designs and manufactures dedicated outdoor air handling units that require robust cabinets and components to effectively condition 100% outdoor air – on the coldest winter day or the most humid summer day. [www.valentair.com](http://www.valentair.com)



## INGENIA TECHNOLOGIES

Custom air handlers (316L, 316, 304, aluminum, and galvanized), direct replacement air handlers, AHUs with custom piping and pumping packages. [www.ingeniatechnologies.com](http://www.ingeniatechnologies.com)



## INNOVENT

Custom energy recovery units, custom air handling units, desiccant dehumidifiers, pool dehumidification units, packaged refrigeration systems (heat pumps, a/c and evaporative condensing). [www.innoventair.com](http://www.innoventair.com)



## ARCTIC CHILLER GROUP

Air cooled and water cooled centrifugal chillers utilizing Turbocor® compressors, modular chillers, process chillers, medical chillers (linear accelerator and MRI), pump and hydronic packages. [www.articchillergroup.com](http://www.articchillergroup.com)



## FULTON

Condensing boilers, steam boilers, ancillary steam plant accessories, custom engineered hot water and steam plants. [www.fulton.com](http://www.fulton.com)



## ALFA LAVAL

Plate and frame and brazed plate heat exchangers. [www.alfalaval.us](http://www.alfalaval.us)



## CANARIIS CORPORATION

Pumping packages, heat transfer skids, air-cooled and water-cooled chilled water plants, steam and hot water boiler plants. [www.canariis.com](http://www.canariis.com)



## CALMAC

Electrical demand reduction systems, thermal storage systems. [www.calmac.com](http://www.calmac.com)



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**TAS ENGINEERED MODULAR SOLUTIONS**

Packaged central chiller plants, combined heat, power plants. [www.tas.com](http://www.tas.com)

**TECHNICAL SYSTEMS, INC.**

Custom DX condensing units and chillers (.5-500Tons), low noise solutions. [www.technical-systems.com](http://www.technical-systems.com)

**MJC**

Air rotation units, custom HVAC equipment, modular self-contained replacements, modifications and coating. [www.mjcinc.com](http://www.mjcinc.com)

**TRIAATEK**

Fume hood controls, room pressure controls, air valves (damper and venturi), high performance fume hoods. [www.triatek.com](http://www.triatek.com)

**UNITED COOLAIR**

1 to 100 ton "All-Indoor" modular HVAC solution systems for commercial and industrial cooling as well as 100% outside air applications. [www.unitedcoolair.com](http://www.unitedcoolair.com)

**GENESIS AIR**

Design and manufacture of Trane Catalytic Air Cleaning System (TCACS), Filtration System combining MERV rated filters, integral UV lights and special material to produce chemical reaction which combats organic and inorganic particles, Can be used with both new and existing AHUs. [www.genesisair.com](http://www.genesisair.com)

**RENEWAIRE**

Energy Recovery Ventilators (ERV). [www.renewaire.com](http://www.renewaire.com)

**BRD HUSH CORE**

Noise control and acoustical solutions. [www.hushcore.net](http://www.hushcore.net)

**WESSELS**

Expansion tanks, air separators, buffer tanks, glycol feed systems, pot feeders, blow down tanks, heat exchangers (brazed plate, plate and frame, shell and tube). [www.westank.com](http://www.westank.com)

**THYBAR**

Custom roof curbs, equipment modifications, replacement air handlers. [www.thybar.com](http://www.thybar.com)

**TEMSPEC**

Classroom unit ventilators, high-rise fan coils. [www.temspec.com](http://www.temspec.com)

**CENTROTHERM**

Polypropylene boiler venting material. [www.centrotherm.us.com](http://www.centrotherm.us.com)

**REFTEKK**

Bendable H55 hard copper, digibender, swag expander, brazing rings. Useable for refrigerant piping, plumbing, and medical gases. [www.reftekk.com](http://www.reftekk.com)

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