6677 FRANK AVE. NW • NORTH CANTON, OH 44720 • PH:330.493.3722

Coshocton Port Authority
Coshocton Collaborative

Addendum No. 4 – 19.137

December 14th 2023

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto. The following clarifications, amendments, revisions, changes and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum. Each bidder shall acknowledge receipt of this Addendum in his bid proposal. Bidders shall be responsible for becoming familiar with every item of this Addendum.

GENERAL:

1. Project is tax exempt.

RFI:

ARCHITECTURAL RFI:

1. Could more information be provided for WD-6? The finish notes read to match existing profile, but I do not see a height, profile or any other information provided for details.
   For bidding purposes assume 6" base with "Mouldings One: 2106 baseboard" profile, but it is expected the awarded bidder will field verify the height and profile.

2. Coded note 12 on 9.6 calls to infill with poplar wood in areas where wood trim is missing. Can this quantity be provided for all bidders to include, possibly in the form of an allowance?
   Exact quantities are unknown of WD-5 in Coded Note 12 on 9.6, areas that need to be infilled are minimal. For bidding purposes, assume 4 windows will need wood trim replaced.

3. Should the public sidewalk be removed at the front of the building only as needed for new foundations or should a larger section be removed to eliminate a patched appearance?
   For the purpose of bidding, please assume only removal of portion of the sidewalk needed for the new foundations.

4. Does a portion the public sidewalk at the front of the building need to remain open at all times during construction?
   No, if sidewalk closures need to be made, contractor and design team can coordinate with the owner.

5. Doors 110.1 and SE.3 are shown as new doors on the door schedule but are missing from the hardware schedule in the specifications. Please provide hardware sets for these doors.
   Doors 110.1 and SE.3 can use Heading #04 in the door hardware schedule.

6. There is a specification for Aluminum Fire Rated Frames and Glass, but I do not see any aluminum openings tagged as fire rated. Please advise.
   Frames need to match the rating of their door.

7. What should we assume is the average thickness of the hydraulic cement underlayment?
   For bidding purposes assume a ¼" thickness.

8. What substrate should we assume the hydraulic cement underlayment will be applied to?

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Subfloor is a combination of wood and concrete, however, there is finish flooring and subfloor in some areas where subfloor is unknown. The first floor has both wood subfloor and concrete. Where subfloor is exposed on the 2nd and 3rd floors, it is wood.

9. Demolition coded note #3 states to remove all loose equipment, benches and tables. Please include an allowance for all this work as it is too hard to quantify the amount of work based off one site visit.
   For bidding purposes, assume all loose equipment, benches, and tables will be removed by owner prior to start of construction.

10. IS the wood molding located on interior elevations, coded note 9, existing to remain or something that needs to be provided and installed on this project? The drawings are not clear.
    Coded Note 9 and 14 refer to WD-2 panel moulding and is new in all cases where shown on Interior Elevation sheets 9.6 and 9.7. It is called out on elevations 1 and 4 on 9.6. It is also shown on elevations 1, 3, 4, 5, and 6 on sheets 9.7, it is called out as typical for dimensions on elevations 1 and 6.

ELECRTICAL RFI:

1. New smoke detectors have been added in the theater portion of the building to be finished at a later date. Can we mount these to the underside of the catwalks?
   Yes.

2. On the lighting for the Cat5 cable for the low voltage, is it acceptable for this to be ran in J-hooks and use conduit stub ups to the low voltage switches? Or does all the cat 5 low voltage wiring need to be in conduit throughout?
   Ethernet cable run to data outlets or light switches should be installed in conduit from the outlet box to an accessible ceiling space. Cables may be run open in J-Hooks though open areas and above accessible ceilings.

HVAC SUBSTITUTION REQUEST:

1. Custom Controls Group is an acceptable installer with the following clarifications.
   a. Siemens is an acceptable manufacturer of the open Niagara N4 controls.
   b. All installed controls and associated software shall meet the project specifications and be installed fully open. All control devices furnished shall be programmable directly from the Niagara 4 Workbench embedded toolset upon completion of this project. The use of configurable or programmable controllers that require additional software tools for post-installation maintenance shall not be acceptable.
   c. Owner shall receive all Administrator level login and passwords for engineering toolset at first training session. The Owner shall have full licensing and full access rights for all network management, operating system server, engineering and programming software required for the ongoing maintenance and operation of the BMS.

- - - END OF ADDENDUM NO. 4 - - -

ATTACHMENTS:

Approved controls substitution.

SIEMENS

Technical Specification Sheet
Document No. 149-1036
February 19, 2016

Niagara 4 Supervisor

Description

The Siemens Niagara 4 Supervisor is an IoT (Internet of Things) software platform used in server-class applications. It makes managing all buildings at an enterprise level possible, giving facilities managers the ability to quickly respond to problems and insights to optimize their system.

The Niagara 4 Supervisor allows multiple Niagara-based JACE® controllers, along with other IP-based controllers, to be networked together. It serves real-time graphical information to standard Web-browser clients and provides server-level functions. These functions include centralized data logging/ trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management, and integration with other enterprise software applications through an XML interface (oBIX standard). Also, it provides a comprehensive graphical engineering toolset for application development.

Features

- Centralized system management
- Quickly navigate to individual buildings using tags to diagnose problems
- Compare data between buildings
- Export system data to external databases
- Integrate BAS to other enterprise applications
- Integrate to other applications, such as work order management, analytics, and so on.
- Single tool used to program JACE controllers and Supervisor
- Remotely back up JACE applications to Supervisor
- Batch provisioning of JACE firmware upgrades from Supervisor
- HTML5 and Java-enabled user interface (UI); JavaScript data interface library included (BajaScript)
- Supports an unlimited number of users over the Internet/intranet with a standard Web browser (depending on the host computer resources)
- Optional enterprise-level data archival using SQL, MySQL or Oracle databases and HTTP/HTML/XML, CSV or text formats
- “Audit Trail” of database changes, database storage and backup, global time functions, calendar, central scheduling, control and energy management routines
- Sophisticated alarm processing and routing, including email alarm acknowledging
- Access to alarms, logs, graphics, schedules and configuration data with a standard Web browser
- Niagara follows industry best practices for cyber security, with support for features such as strong hashed passwords, TLSv1 for secure communications and certificate management tools for authentication
- HTML-based help system that includes comprehensive online system documentation
- Supports multiple Niagara-based stations connected to a local Ethernet network or the Internet
- Provides online/offline use of the Niagara Framework® Workbench AX graphical configuration tool and a comprehensive Java Object Library
- Optional direct Ethernet-based driver support for most Open IP field bus protocols (see supported drivers document)

Supported Drivers

Many open protocol IP drivers are included with Niagara 4. Others can be purchased separately. For an up-to-date list of supported drivers, visit our resource library on tridium.com.

Compatibility

In any given Niagara system, the Niagara Supervisor must be running the highest version of any Niagara instance in the architecture.

When connecting to JACEs that are running older versions of Niagara, these compatibility guidelines apply:

• **Niagara AX**: Niagara 4 Supervisors can connect to JACEs running Niagara AX versions 3.6u4, 3.7u1, 3.8R and higher.

• **R2**: Niagara AX and Niagara 4 Supervisors can connect to JACEs running R2 through the oBIX XML interface only. oBIX is included in all Niagara AX and Niagara 4 Supervisors as a means of integrating Niagara-based Release 2 (R2) JACEs. With Niagara Release 2.3.522 or higher, the oBIX driver can be added to expose all data points, schedules, trends and alarms to a Niagara AX or Niagara 4 system. This oBIX driver is both a client and a server.

Specifications

Niagara 4 Supervisor may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, and so on.

Processor	Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors
Operating System	Windows 10, 64-bit Windows 8.1 Enterprise, Windows Server 2012 Standard and 2012 R2 Standard
Memory	1 GB minimum, 4 GB or more recommended for larger systems
Hard Drive	4 GB minimum, more recommended depending on archiving requirements
Display	Video card and monitor capable of displaying 1024 x 768 pixel resolution or greater
Network Support	Ethernet adapter (10/100 Mb with RJ-45 connector
Connection	Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem)

Platform requirements for older versions of Niagara Supervisors are included in the Release Notes for each particular version.

The Niagara 4 Supervisor is available through a wide variety of original equipment manufacturers. Our open distribution business model and open protocol support allow a vendor-neutral application compatible with devices and systems throughout the world.

To learn more about how to purchase, install and start using the Niagara 4 Supervisor, or if you are an original equipment manufacturer and would like to add the Niagara 4 Supervisor to your suite of offerings, please contact us.

Product Ordering Information

Description	Part Number
No Niagara network – Devices only (18 month SMA req).	T-SUP-0
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-0-SMA-INIT
1 Niagara network connection (18 month SMA req).	T-SUP-1
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-1-SMA-INIT
2 Niagara network connections (18mo SMA req).	T-SUP-2
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-2-SMA-INIT
3 Niagara network connections (18 month SMA req).	T-SUP-3
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-3-SMA-INIT
10 Niagara network connections (18 month SMA req).	T-SUP-10
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-10-SMA-INIT
100 Niagara network connections (18mo SMA req).	T-SUP-100
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-100-SMA-INIT
Unlimited Niagara network connections (18mo SMA req).	T-SUP-UNL
18mo initial SMA (3 year or 5 year can be substituted).	T-SUP-UNL-SMA-INIT
Niagara 4 Supervisor demo.	T-SUP-DEMO

Description	Part Number
Adds one additional Niagara connection to Supervisor.	T-SUP-UP-1
Upgrades small Supervisor to 100 Niagara connections.	T-SUP-UP-100
Upgrades Supervisor 100 to unlimited Niagara connections.	T-SUP-UP-UNL
10 device core (STD drivers included).	T-SUP-DEVICE-10
25 device core (STD drivers included).	T-SUP-DEVICE-25
50 device core (STD drivers included).	T-SUP-DEVICE-50
100 device core (STD drivers included).	T-SUP-DEVICE-100
200 device core (STD drivers included).	T-SUP-DEVICE-200
Enables Supervisor to run Niagara AX (v3.8).	T-SUP-AX
Supervisor [0-UNL] Maintenance – [1,3,5] year extensions.	T-SUP-[0-UNL]-SMA-[1,3,5]YR
If Maintenance coverage is not purchased for any period, the price of Maintenance for the next period for which it is purchased will be (i) the Maintenance fee for the period(s) for which Maintenance was not purchased, up to a maximum of 5 years; and (ii) the Maintenance fee for the next year.	

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Your feedback is important to us. If you have comments about this document, please send them to SBT_technical.editor.us.sbt@siemens.com.

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SIEMENS

facts

ABT Site V5.1, ABT Pro V5.1 & ABT Go V5.1 Sales & Delivery Release Facts

This Facts provides information on the delivery release of ABT Site V5.1, ABT Pro V5.1

No. 47E148BC
May 30, 2023

47 - DESIGO
Product Release

Products
Desigo

Reservation
Facts represents official information from headquarters to the regional companies. Processes, products, solutions, deadlines and conditions named herein may vary from individual regional companies.

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Content

1 Management Summary

We are proud to announce the delivery release of ABT Site V5.1, ABT Pro V5.1 and ABT Go V5.1. The highlights include:

- New PXC5.E24 Automation Station
- System/BACnet improvements:
  - BACnet Ref. 1.16
  - AMEV 2017 for PXC4/5/7
  - BACnet/SC:
    - PXC4/5/7 improvements
    - DRA (DXR2/PXC3) support
  - Cybersecurity for DRA
- Modular Application / Programing improvements for PXC4/5/7

Others

- General ABT Site improvements
- PXC4/5/7 range:
  - General PXC4/5/7 improvements
  - KNX PL-Link improvements
- Room automation:
  - ABT Go improvements
  - ABT Site room programming improvements
  - DXR2 application improvements

Engineering efficiency is a decisive factor for competitiveness and market success of Siemens Building Automation systems. Our engineering software, in particular ABT Site and ABT Go, empowers our customers to conduct business in a cost-effective manner. Customers can efficiently plan, program, commission, and maintain highly reliable automation systems, throughout all the phases of a building's life cycle. We continuously strive to improve ease-of-use, flexibility, and workflow performance of our engineering software to render our systems even more competitive.

ABT Site/Pro V5.1 is running on the the TIA Portal V17 as of V5.0. In other words, data does not need to be converted when upgrading a project from ABT V5.0 to ABT V5.1. However, older project data (e.g. V4.x) must be migrated for use with V5.1.

We also implemented several improvements to tooling and workflows to increase the portfolio's engineering efficiency. More details related to Desigo PXC Automation Stations and Desigo Room Automation Updates are available in the following Facts:

- Desigo PXC4, PXC5 and PXC7 Update Sales and Delivery Release (47E147BC + 47D147BC)
- Desigo Room Automation Update Sales and Delivery Release (47E146BC + 47D146BC)

2 ABT Site V5.1

ABT Site V5.1 includes several major improvements (see below). This release also offers new products and features including the PXC5.E24 automation station or BACnet/SC support for both the PXC4/5/7 range and DRA (DXR2 as well as PXC3 together with ABT Pro).
We rounded off the PXC4/5/7 range, by introducing improvements to ABT Site tooling and modular applications and extending the range to support KNX PL-Link devices. For room automation, ABT Site supports scene engineering for the DXR2 room programming as of V5.1. Please refer to the latest edition of the data sheet A6V11159913 for an overview of the feature and functions of ABT Site.
For DXR2, additional application templates are available. Additionally, ABT Go V5.1 fully supports the Pack & Go and Return workflow for DXR2.

General Updates

ABT Site V5.1 offers various improvements that increase engineering efficiency while also closing the gap to the Classic PX range. The overview summarizes the highlights:

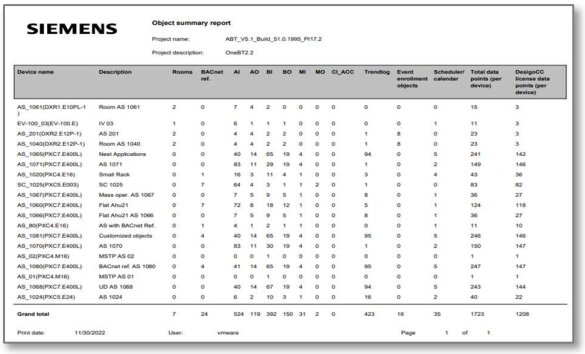
Feature	Highlight
Duplicate Project Structure - Customized Sample/Template Projects	ABT Site users can reuse/share project settings (user/roles, languages, ranges, certificate settings etc.); no need to start from scratch on new projects. Users can also define default/template projects for reuse on new projects.
Object summary report for total number of objects	The report calculates the number of objects on a project to assist the user in selecting Desigo CC/Optic/Control Point license size. 
BACnet object property export	BACnet object property export (CSV file) includes the settings of the most important BACnet properties on all standard BACnet objects. The export documents the settings at the plant handover and is available for all devices on an ABT Site project.

Table 1: General ABT Site V5.1 updates

Other features were added to simplify engineering:

- Easy enter of IP address range settings (user is guided to valid address ranges)
- Check for duplicate DNS server entries in IP devices (user is informed about duplicate DNS server entries)
- Enhanced device discovery (filter function for faster device discovery)

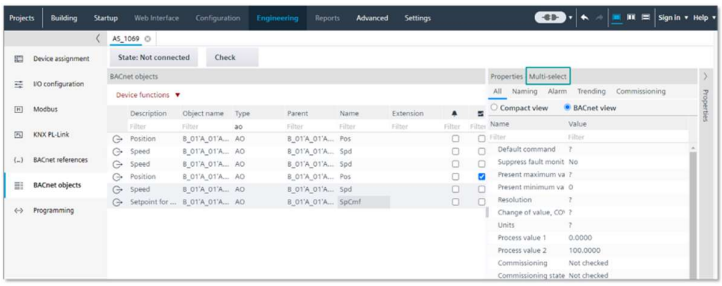
Only enhanced device discovery requires a firmware update[1]. The current version of ABT Site V5.1 is sufficient.

Desigo PXC4/5/7 updates

ABT Site V5.1 comes with a wide range of features for PXC4/5/7 devices for the latest system and product improvements as well as increasing engineering efficiency. Closing the gaps to the existing Classic PX devices was the primary focus here. The most important new features:

Feature	Highlight
New PXC5.E24 and PXC4 improvements	ABT Site V5.1 supports the latest product improvements: • Full support of the new PXC5.E24 automation station.  • Increase in the max. number of objects for all existing PXC4 automation stations. For more details refer to Facts Desigo PXC4, PXC5 and PXC7 Update Sales and Delivery Release (47E147BC + 47D147BC)
Remove PXC4/5/7 device infrastructure objects from objects counting (check)	The PXC4/5/7 infrastructure objects were removed from the limits. This **frees up more than 30 objects** for other uses and applies to all PXC4/5/7 types.

[1] Includes updates of device types to V1.4 for PXC4/5/7 or V8.0 for DRA devices

Feature	Highlight
PXC5.E003 and PXC7: support of onboard DI	The tool supports additional digital onboard inputs (DIs) on PXC7 and PXC5.E003 devices. The DIs are already available on existing devices.  The PXC5.E24 onboard DIs are also supported as of release and can be used like any ordinary inputs to include applications programming.
Object editor in ABT Site for mass Operations - Multi select Object	As of ABT Site V5.1 mass changes of properties of any object is possible with the help of the Object Editor. This also allows easy creation of trends log objects and set alarms in one step. 
Create point test history when commissioning with the tool editors (during 'Play' mode)	The tool generates a commissioning history and stores commissioning information for the PXC4/5/7 devices the same as used for DRA and ABT Go. This allows combined commissioning workflows where lower skilled staff uses ABT Go for basic point testing and 'failed' points require the assistance of a skilled engineer using ABT Site. The engineer can finish point testing while troubleshooting any issues (setting them to 'Passed') without switching tools or returning the task to the user. ABT Site V5.1 also guarantees seamless workflow support in the RSS organization for the PXC4/5/7 range (ABT Reporting Tool).
Drag-and-drop functionality	Improved support for change workflow: Users can simply drag a HW data point for replacement from the field device catalog / custom library to the existing point. No editing required in the field programming editor since the object ID does not change.

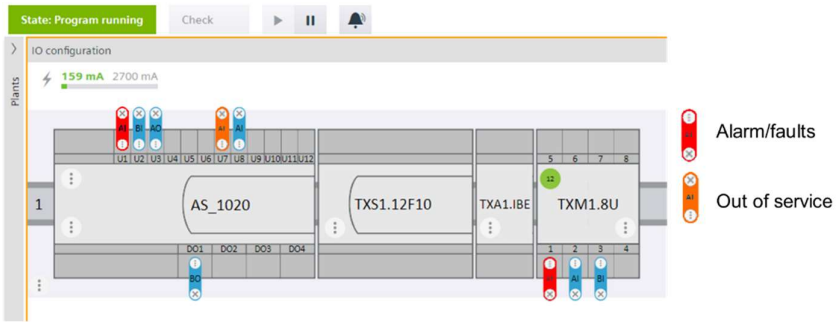
Feature	Highlight
Show alarm/fault and out of service states in rail engineering view	Users can see alarm/fault and out of service states for any HW data point in rail engineering view:  The intuitive feature accelerates acceptance by new ABT Site users.

Table 2: Highlights Desigo PXC4/5/7 updates

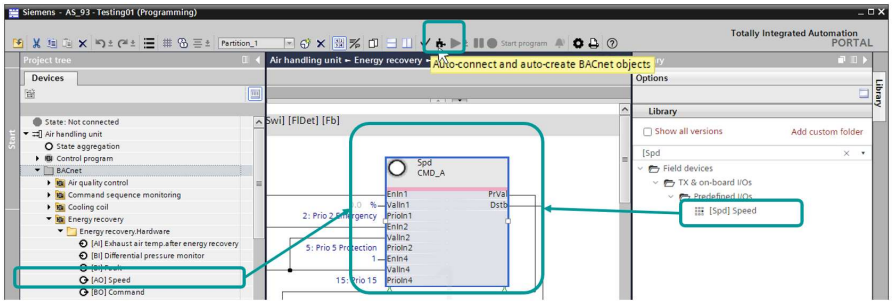
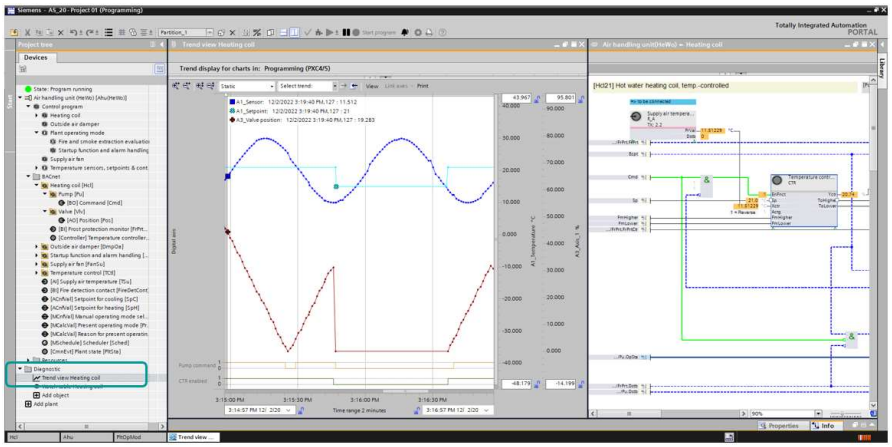
Additional improvements to ease of use and engineering efficiency:

- PXC4: Change of device types (upgrades to "bigger" PXC5/7 automation stations during engineering)
- Define flexible object name structure (supporting e.g. for Desigo Optic)
- BACnet referencing: Import for EDE files with different syntax
- Program simulation: Launch of simulator via "Applications & Devices"
- Automated alignment of “State text” and “Number of states” on multistate value objects

Apart from the support of onboard DI for the PXC5.E003/PXC7 as well as the support of changing device types for the PXC4, there is no update[1] of the firmware needed for existing PXC4/5/7 to benefit from above improvements. An update to tool version ABT Site V5.1 is sufficient.

Modular Application / Programing Improvements for PXC4/5/7

Several improvements to programming and debugging efficiency are introduced for PXC4/5/7, including:

Feature	Highlight
Auto-connect / auto-create	A new tool bar function that checks the program for all exchange function blocks (“XFBs”) without an assigned BACnet object and either automatically connects the blocks an existing BACnet object in the tree view or creates a preconfigured I/O from the library.  The feature speeds up the process of modifying modular applications by eliminating manual tasks when adding / replacing program blocks.
Trend view	The programming editor supports up to 16 trend views. Simply drag pins from function blocks or charts to them. Online, the live values are displayed in graphs which further simplifies debugging. 

Library updates	New program blocks: • 4 heating/cooling coils • 2 cooling coils for direct expansion • Humidifier for adiabatic cooling (extract air) • Group of 16 fire dampers and logics for testing • Room temperature model • 2 heat pumps, optimized for heating • Pump group with up to 8 modulating pumps, pressure controlled • Pump group with up to 8 1-stage pumps • 3-position control valve New and extended plants: • New plant for ventilation (without temperature control) • Heating/cooling coil and adiabatic cooling added to Ahu23x More program blocks were updated and there are some new predefined IOs and adapted Modbus field devices.

KNX PL-Link improvements for PXC4/5/7

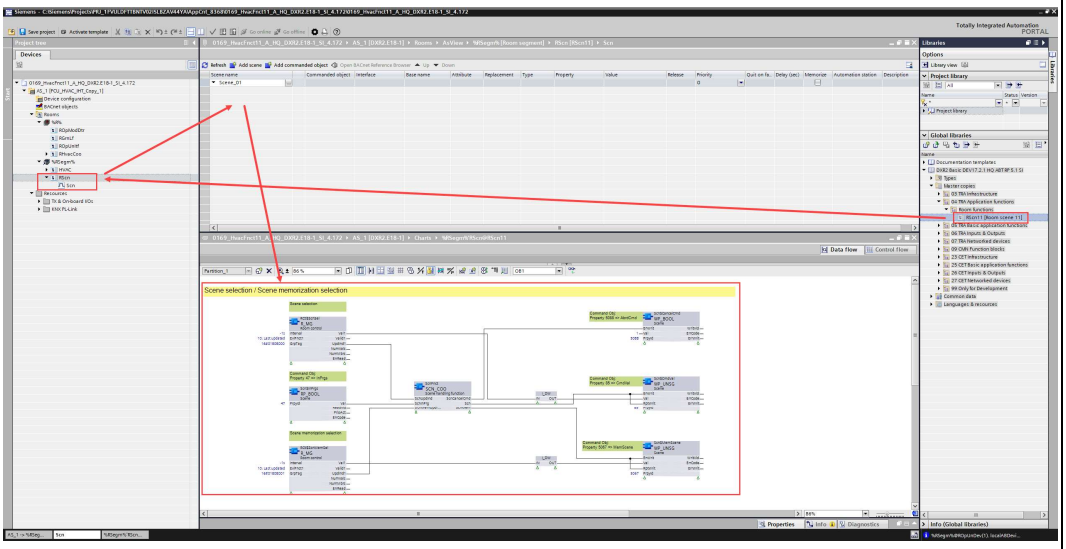
The KNX PL-Link sensor portfolio now supports primary controls. PXC4, PXC5, and PXC7 now support the following devices:

- HVAC room operator units QMX2.P33, QMX2.P43
- Flush-mounted room sensors AQR2570.., AQR2576.. (front modules: AQR253..)
- Presence detectors UP258D12, UP258D31, UP258D41, UP258D51, UP258D61

PXC4/5/7 firmware must be updated[1]to use new KNX PL-Link devices. Refer to the Desigo PXC4, PXC5 & PXC7 Planning overview (A6V13054435) or the Desigo PXC4, PXC5 and PXC7 Update Sales and Delivery Release (47E147BC + 47D147BC) for further information.

Room automation updates

ABT Site room programming now includes scene engineering for applicable KNX devices.

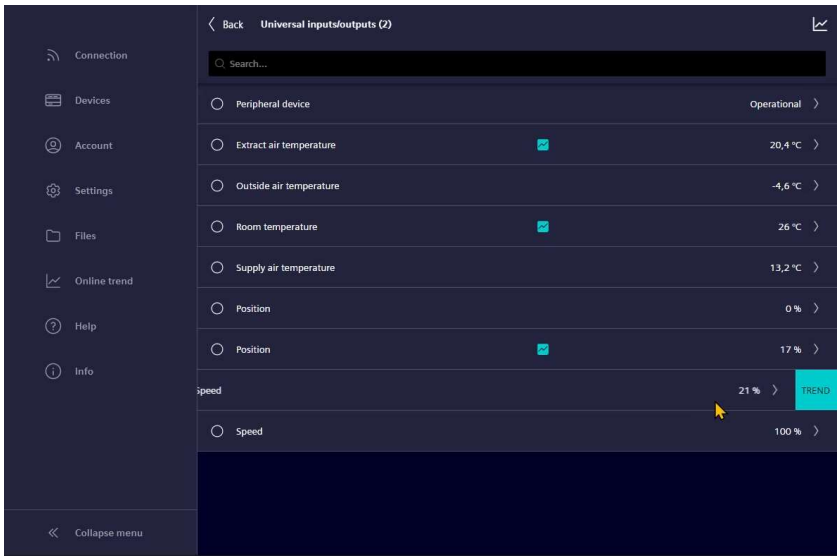
Feature	Highlight
Scene engineering	Scene engineering is available in the room programming editor: The Scn object can be added directly from the room programming library.  Please refer to the help files and room programming training for specific workflow instructions
New sensor selection	The UP255 brightness sensor is added to the Sensor dropdown lists in the "KNX PL-Link device" tab for ABT Site. This device was formerly only available in ABT Pro.
Lighting application	Individually configure presence operation for each lighting circuit • A new option is added to the Presence Operation dropdown list for each configured lighting zone. When option PscOp12 is selected, each light can be individually configured for Auto-on/auto-off, Manual-on/auto-off, Auto-on/manual-off, or disabled, and allows different responses for each room operating mode. This change helps to satisfy requirements for some lights in a room to be Auto-on\Auto-off, but other lights to be Manual-on\Auto-off. Configure occupied lighting levels • Not all spaces require lighting at 100%. This change allows the occupancy sensor to turn lights on at a lower level, but allows occupants to raise the level as needed. This strategy can save energy since the lower level is appropriate for many activities. It can also be used to comply with energy codes requiring a partial-on condition. Configure unoccupied lighting levels • In some spaces such as stairwells, hallways, or other spaces where the safety or security of occupants is a concern, this change allows lights to be set to a low level when unoccupied, instead of turning off the lights.

New 4-Pipe 6-Way/PICV device GDB161.9E/6P	The following Hvac applications were updated to support the new 4-Pipe 6-Way/PICV device, part number GDB161.9E/6P. • HCcl4Pipe13 (**Heating/cooling coil 4-pipe, direct control**) • HCcl4Pipe14 (**Heating/cooling coil 4-pipe, supply control**) • HCcg4Pipe13 (**Ceiling heat./chilled ceiling 4-pipe, including passive heat/chilled beam**) • FlrHC4Pipe13 (**Floor heat/cool. 4-pipe**)
Central Function	Room Temperature minimum, maximum, and average values are now available in CenOpMod(x) Ossc central function and provides • Average of 10 lowest room temperatures • Average of 10 highest room temperatures • Average of all room temperatures These values are often required to be displayed in graphics, to calculate optimum start times, and other building-wide applications that require information on the range of room temperatures in DXRs.
Bug fix	Resolve type mismatch for 5WG1-526-4DB23 (RL 526/23) • Added a new device entry for the RL 526/23 to the ABT Pro and ABT room programming libraries. It is used to support RL 526/23 in ABT projects.

Note: The firmware for existing DRA devices must be updated[1] to benefit from the above improvements.

- **Online trend**

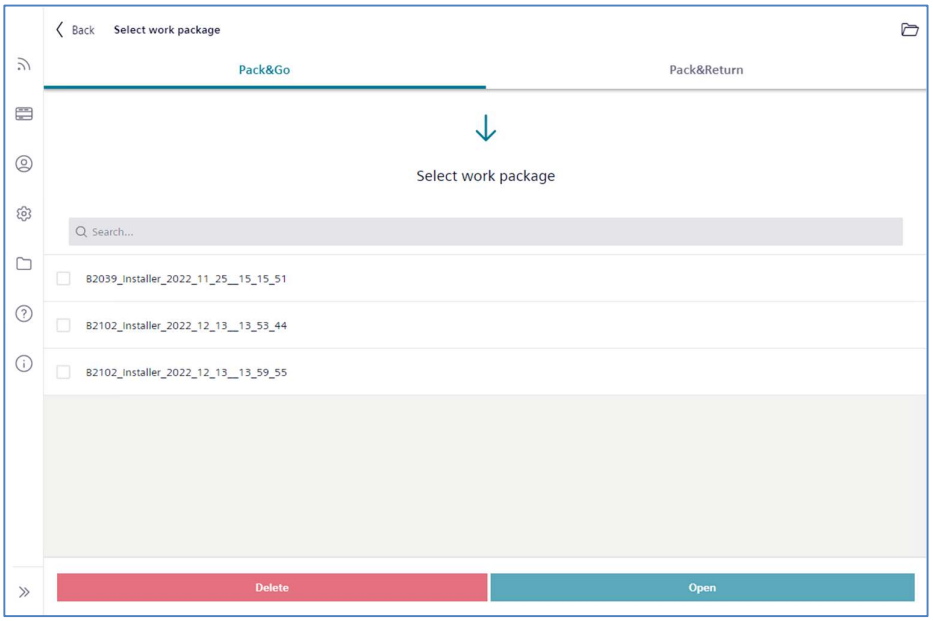
  ABT Go supports “Online trend” for data points with a new “Online trend” view to render data point testing more intuitive and faster. It is considerable easier to read and interpret change of values to a data point during testing. The following devices support online trending: DXR1/DXR2/PXC3 and PXC4/PXC5/PXC7



Supported on Android, iOS, and Windows platforms.

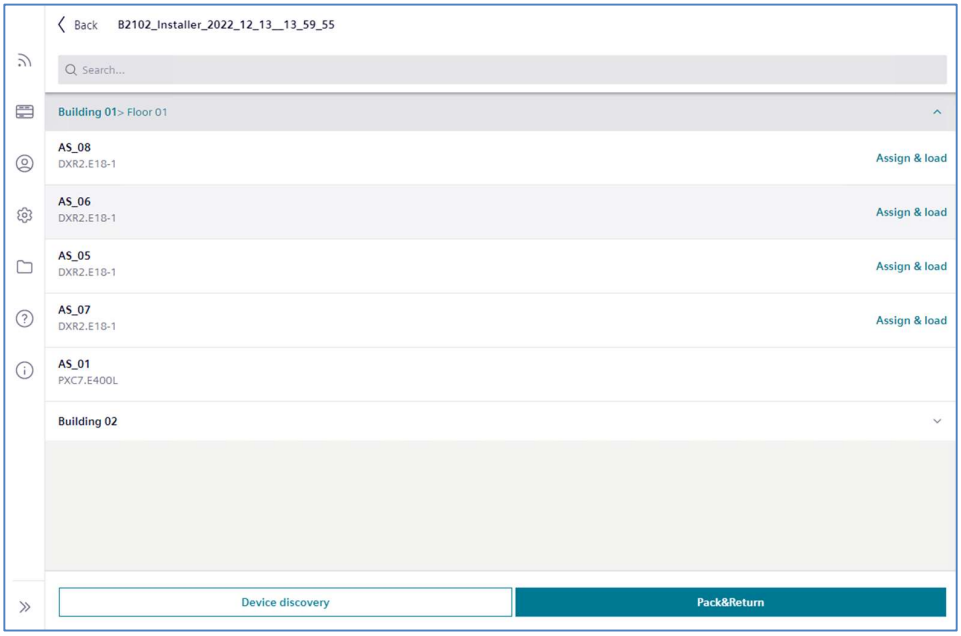
- **Pack&Go and Pack&Return support in ABT Go.**

  ABT Go V5.1, supports Assign and load using pack & go files from ABT Site for room automation devices (DXR2.E/M only). ABT Go can now open the pack & go files generated in ABT Site and displays the building hierarchy with devices.

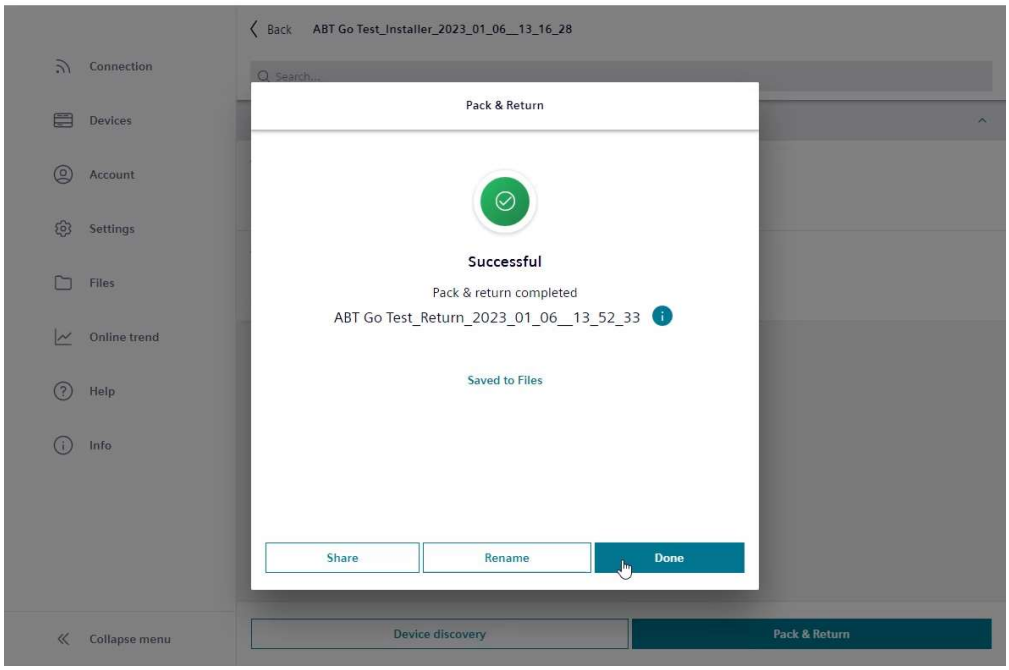


Using Pack&Go file user can

Assign and load the device configuration to room automation devices (DXR2.E/M only) and load the application. “Write changes” supports loading the changes to the application.



Once data points are assigned, loaded, and tests, ABT Go can generate a **Pack and return** of the automation devices. Only operational devices that are included in the pack and go file are returned to the ABT Site.



ABT Site opens the returned file and merges changes in existing projects.

Only supports room automation devices i.e. DXR2.E and DXR2.M and **only on** a **Windows** platform. Android and iOS apps **do not support** this feature

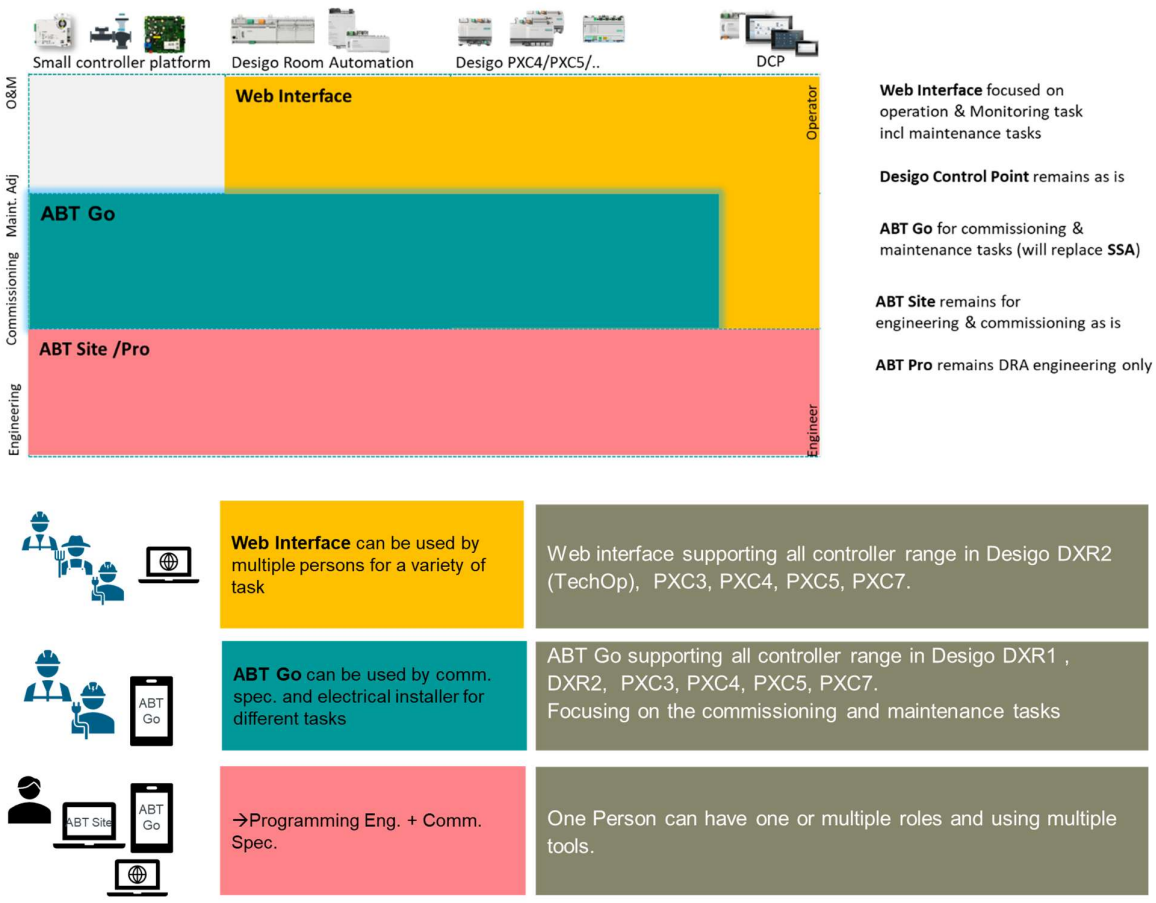
- **ABT Go replacing Setup and Service Assistance (SSA)**

As of ABT V5.1 SSA is not available anymore to perform data point testing for room automation devices e.g. DXR2/PXC3.

ABT Go is the new tool for data point testing in the Desigo System and all automation devices supported by ABT.

- SSA was data point testing however tool for over 10 year and there are major challenges maintaining and keeping it vulnerability free. SSA was built on old technological platform and not possible to maintain without changing complete underneath platform.

Following images illustrates the positioning of ABT/Web interface.

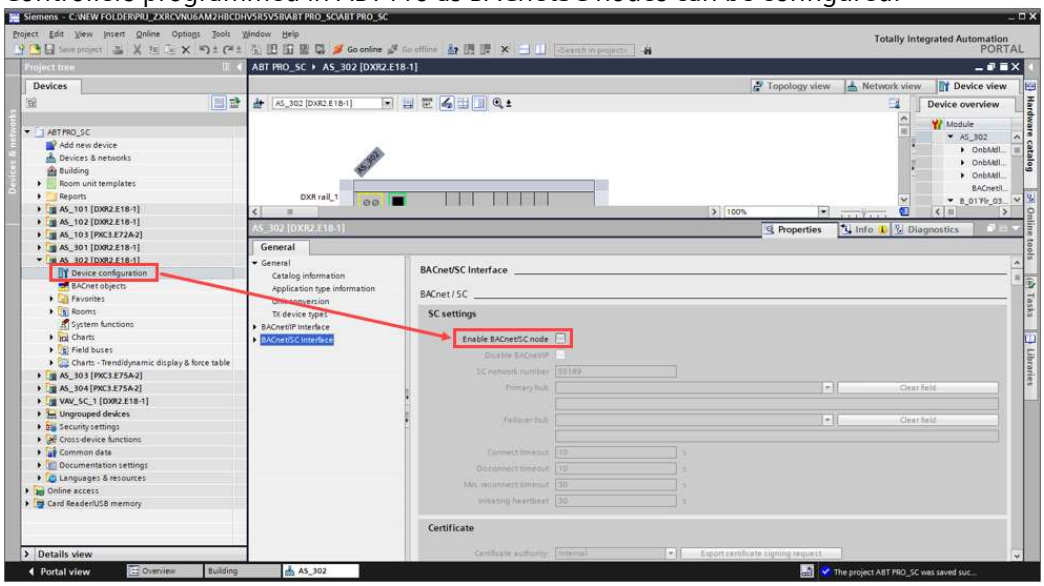


Next steps:

ABT Go is planned to support additional functions such as TX I/O bus commands, KNX PL-Link orphan list, etc as part of the next release.

4 ABT Pro V5.1

Apart from continuous quality improvements (bug fixing), ABT Pro V5.1 newly support BACnet/SC engineering for the PXC3 room automation stations. Please refer to section 5 of this Facts for more details.

Feature	Highlight
Support BACnet/SC configuration for DRA in ABT Pro	Controllers programmed in ABT Pro as BACnetSC nodes can be configured.  Please refer to the help files and training for specific workflow instructions. *Note: DRA devices (PXC3/DXR2) support only node functionality. They cannot act as hubs or failover hubs.*

5 System/BACnet improvements

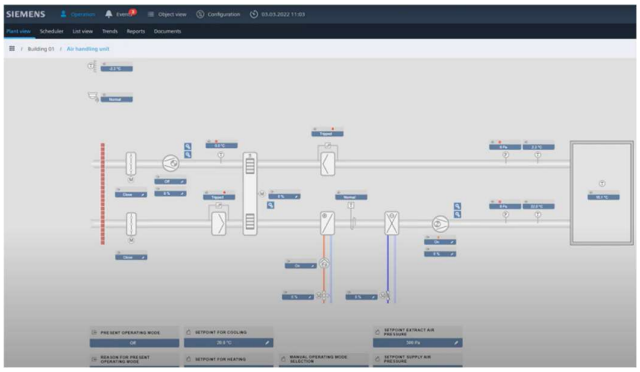
- The Desigo system introduced the following updates, described in detail in Product Facts "Desigo PXC4, PXC5 and PXC7 Update Sales and Delivery Release" and "Desigo Room Automation Update Sales and Delivery Release":

- PXC4/5/7:
  - Upgraded of BACnet Revision to 1.16
  - Support of German AMEV 2017 guideline requirements
  - Support of larger BACnet/SC system topologies
- DRA:
  - Support of BACnet/SC as nodes
  - USB ports can be disabled to improve cybersecurity

Note: The firmware for existing PXC4/5/7 and DRA devices must be updated[1] to benefit from system/BACnet improvements.

6 Desigo Control Point updates

The user interface (UI) for offline engineering matches the online version as of version 2.0.



- New UI for engineering
  - Aligned UI (engineering)
  - Efficient navigation between key functions/applications
  - Alarm status always displayed

The official release of Desigo Control Point is scheduled for a later date. Refer to the Product Launch Calendar (PLC) for details.
The new UI is already available as of ABT Site tool release V5.1.

The version has no restrictions and no reason to wait for the release of Desigo Control Point.

Desigo Control Point devices engineered with device version V2.0 do not require a firmware update. Tool version ABT Site V5.1 is sufficient.

7 Installer

ABT is provided as a single installer and all required software components are automatically installed. The users can choose between ABT Site or ABT Site with ABT Pro and the corresponding application libraries and can also customize installation (install or uninstall additional libraries) at a later date. Refer to the Market release note for details.

The ABT V5.1 Installer supports new installations on computers with no ABT as well as updates from existing ABT V5.0 installations to ABT V5.1. Updates to ABT Site V5.1 is not support for older versions (ABT V4.x). Uninstall ABT V4.x first and then install ABT V5.1.

Note:

- A parallel installation of ABT and native TIA installation is not supported. Recommendation: If you want to use S7 and TRA engineering on the same machine, use VMware for the S7/TIA installation.

8 Compatibility

PC hardware requirements

The minimum hardware requirements for tools are **unchanged**[2].

PC hardware requirements for tools	
CPU	Compatible with Intel and AMD technology > 2.0 GHz (> 3.0 GHz recommended)
Memory	16 GB RAM (> 32 GB RAM recommended)
Hard disk	> 100 GB SSD or HDD with very good performance. The greater the number and size of the projects, the more additional memory is required. An ABT project size can range between 250 MB und 30 GB.
Other	Monitor: 1366x768 (1680x1050 recommended)

8GB RAM and 50 GB HDD is sufficient for standalone installations of ABT Go V 5.1 on Windows.

Note:

- ABT does not support engineering of Siemens S7 controllers with its program editors (TIA).
- LMS and ALM licensing in parallel is not supported in ABT.
- ABT does not support working with engineering data in shared folders (e.g. on networks or cloud services).

Microsoft

ABT Site/Pro V5.1 support of Windows Operation Systems (OS) for 64-bit editions is **unchanged**[2]. The ABT tool support is in line with TIA Portal support:

- Windows 10 Professional, Enterprise
- Windows 11 Professional, Enterprise
- Windows Server 2016 Standard OS
- Windows Server 2019 Standard OS

Please note that ABT cannot operate in multiple program instances (in parallel) under Windows Server OS.

Under Microsoft policy[3], ABT V5.1 tools support the Microsoft (Office) 365 and the latest MS Offline office package in the 64-bit edition.

Basically, HTML5 based browsers like Google Chrome or Firefox support the embedded web help for ABT Site. Microsoft Edge is supported as of Chromium-versions (80.0.361). Microsoft Explorer is not supported.

[2] Compared to ABT V5.0

[3] https://en.wikipedia.org/wiki/Microsoft_Office#Timelines_of_support

ABT Go V5.1 Windows OS (64-bit editions) support is also **unchanged**[2]:

- Windows 10 Professional, Enterprise
- Windows 11 Professional, Enterprise

Android/ iOS

ABT Go V 5.1 support for Android/iOS versions is **unchanged**[2]:

- Android OS version 8.0 and higher.
- iOS version 11.0 and higher.

Project data compatibility

Project data for ABT V5.0 does not require a conversion to use it with ABT V5.1. Older project data (e.g. V4.x) does require a conversion to use it them with V5.1 (TIA Portal V17) and later. The conversion processes for V5.0 are unchanged for V5.1.

Note:

- Mixed use of different tool versions on the same project (e.g. ABT V5.0 with ABT V5.1) is not supported.

Compatibility with existing devices

Existing devices normally do not require updates on site (room automation, PXC4/5/7 and Desigo Control Point) to engineer/maintain them with ABT Site V5.1 as long as they do not need new features, functions, or texts). New products/features and functions, update system texts or for bug fixing, may require updated (in up to three steps):

1. Update device version and/or text database in the project
2. Update device firmware version
3. Update block library in the programming editor (for PXC4/5/7 only)

Use in ABT Site 'Check for updates' under Building > 'Application & device overview' and follow the instructions. See also 'Knowledge Board Building Automation' for more information: https://siemens.sharepoint.com/teams/KnowledgeBoardBuildingAutomation/Lists/Knowledge%20board070040ca53b146b2840ed4138055fc35/DispForm.aspx?ID=10&e=FU5fPb

Hint:

- To reach the full feature and function level of ABT V5.1, PXC4/5/7 devices must be updated to version 1.4, the DXR2/PXC3 update to device version 8.0 and the DXR1 to device version 2.0. Refer to the corresponding release notes for more details.
- We recommend using the latest firmware (especially for cybersecurity). The latest FW can operate older applications (with the exception of Desigo Control Point that always combines a FW update and application/graphics).

Caution:

- When the firmware of an existing PXC5.E003 device is updated to this release, it cannot be downgraded to previous versions anymore.
- The device must be repartitioned on DXR2 FW updates to version V7.0 or V8.0 (see https://support.industry.siemens.com/cs/ww/en/view/109815181 for details).

Phase out and replacements

Tools normally support the latest and previous version. This does not apply to ABT Go which only supports the latest version. The current versions are highlighted in **bold**:

Product	Phased out	Replacement / *Actively Supported*
ABT Site	ABT Site V4.4	*ABT Site V5.0* **ABT Site V5.1**
ABT Go	ABT Go V5.0	**ABT Go V5.1**
ABT Pro	ABT Pro V4.4	*ABT Pro V5.0* **ABT Pro V5.1**

Version history as of V4.0 → V4.1 → V4.1.1 → V4.3 → V4.4 → V5.0→ V5.1.

9 Distribution

The release is distributed through two channels serve different target audiences.

Target Audience	SI RSS Solution Partners	Approved Partners Transactional Customers
Tools Included	ABT Site ABT Pro Xworks Plus	ABT Site
Product Supported	All	Products supported by ABT Site, limited to available portfolio
Localizable	Yes	No
Where to get it?	DESIGO_DISTR share folder	Siemens Industry Online Support (SIOS)
When to get it?	Release end of May, 2023	Release end of June, 2023

Standard distribution channels

Provided to tool managers at release date.

SIOS

SIOS is the platform for distributing information to users of ABT Site who may not have a connection to a Siemens branch. SIOS pages for ABT Site (EN, DE) are updated and headquarters maintains the SIOS page and publishes the latest information as soon as possible, for example, when a new version is released.

Users must register and log in to the SIOS platform to download content (e.g. firmware or installation files).

Note
For the SIOS distribution, HQ exclusively configures the features and devices in ABT Site (toggling) and provides any libraries including the common installation framework (ABT Installer). There is only one common local password recovery key which will be provided to the RCs.

Please also be aware that due to the feature toggling as mentioned above, some features and functions that are described in the ABT Online Help are not available in some countries. If you see features described in the ABT Online Help that are not available in your ABT distribution, please contact your local distribution representative.

ABT Go is distributed over the official app stores:

GET IT ON Google Play for Android devices download from Google Play Store

Download on the App Store for iOS devices download from Apple Store

10 Marketing

Going forward, we will move away from promoting single Desigo products, and market Desigo as a system with different components. All marketing efforts will therefore focus on the system level, as well as the main portfolio level, like the complete PXC range (PXC4, PXC5 and PXC7), or complete room offering including technical details and a system overview. Cross references to other sub-systems such as Desigo Control Point and Desigo Optic are also implemented within the assets. Desigo Engineering Framework and TX-I/O modules are considered as integral components of the concept and are part of the Desigo PXC storyline.

The marketing materials are intended for all channels with relevant disclaimers where applicable. The concept is modular and can be tailored to meet your needs.

The marketing materials are available on Highspot. The main Desigo info package deck provides an overview of all marketing assets related to Desigo including links to individual assets.

For cybersecurity and BACnet/SC related materials, please refer to the Cybersecurity@Siemens Buildings intranet page.

The Desigo marketing story will soon be updated and made available on the webpage.

11 Training

No specific training modules are provided as part of the current delivery of the Desigo Engineering Framework. The existing training modules for ABT Site, ABT Pro, PXC4/5/7 Engineering and Room automation will be updated where appropriate to include new functionality and features.

Respective training content for Desigo together with BACnet Secure Connect will be available soon at Desigo with BACnet Secure Connect.

In addition to the existing training modules, we will provide explanations, updates and technical exercises on Desigo PXC4/5/7 and Desigo Room Automation as well as on the Engineering Tools in an interactive Webinar Series. The webinars will be provided on a monthly base, followed by Q&A session and Hands-on sessions on selected topics. For more details about contents, dates, registration links, etc. please check out our Share point page: "Automation Control Webinar Series – SI BP".

Digital training content is available to all channels. For internal Siemens users, the official platform is MyLearning. The MyLearning platform links directly to unlisted YouTube videos and offers a structured summary/collection of learning videos including quizzes in eLearning format.

The YouTube content is unlisted and not available via the search function. External users (without access to MyLearning) access the training modules via the partner portal or HIT.

You can join our BP Academy Yammer group where all available or updated training materials are announced.

For questions or requests on training, please contact our BP Academy, mylearning-zug.ch@siemens.com

12 Cybersecurity disclaimer

Siemens provides a portfolio of products, solutions, systems and services that includes security functions that support the secure operation of plants, systems, machines and networks. In the field of Building Technologies, this includes building automation and control, fire safety, security management as well as physical security systems.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art security concept. Siemens' portfolio only forms one element of such a concept.

You are responsible for preventing unauthorized access to your plants, systems, machines and networks which should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. Additionally, Siemens' guidance on appropriate security measures should be taken into account. For additional information, please contact your Siemens sales representative or visit https://new.siemens.com/global/en/company/topic-areas/future-of-manufacturing/industrial-security.html.

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends to comply with security advisories on the latest security threats, patches and other related measures, published, among others, under https://new.siemens.com/global/en/products/services/cert.html.

13 Technical Support

Desigo technical support is provided by existing HQ support teams in Buffalo Grove, Beijing and Zug. Desigo system experts have ramped up the teams and are ready to take your calls. Connect technical support through the standard channels at you location for help.

Support and information are also available online:

- Product support
- Forum

The quickest and best way to contact HQ support is to place the call directly on the Support Request entry mask under mySupport (mySupport) on the Service and Support Portal SIOS or to escalate the case in ASSIST using the Request HQ feature.

Contact addresses and dispatch centers Europe:

Technical Support Zug for Comfort:
Siemens Switzerland Ltd., CH-6301 Zug
Email: support.eu.i-bt@siemens.com

Contact addresses and dispatch centers Americas:

Technical Support BG for Comfort:
Siemens Industry, Inc. Buffalo Grove, IL 60089-4513
Telephone: +1 800 877 7545 (Dial 2)
Fax: +1 312 604 7862
Email: support.us.i-bt@siemens.com

Contact addresses and dispatch center AP, China:

Address TS Beijing for Comfort:
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Or 4006-306090 (Toll free China)
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SIEMENS

Technical Specification Sheet
Document No. 149-1040T
March 24, 2017

Siemens N4 Appliance

Description

Siemens N4 Appliance has been designed as an automated Niagara station builder for Niagara 4 with pre-defined and customizable configurations based on Siemens knowledge in the Building Automation industry.

Using the Siemens N4 Appliance saves you time during the Niagara station setup process by using automation, customizable templates, default presets and license free PX based application graphics. It has been tested following Siemens quality procedures that provide a repeatable high quality result.

The Siemens N4 Appliance files are available for download from the Vantage web site.

Features

- Siemens provided applications, templates and some functionality can be easily customized to fit specific needs or requirements.
- Includes customizable default settings of:
  - Alarm Services
  - Category Services
  - Role Services
  - User Services
  - Hierarchy Services
  - Tag dictionary Services
  - Default Views
- Functionality based on the AX with enhancements based on the Niagara N4 platform and user feedback.
- Specific access through the Niagara 4 platform to the Siemens TC Compact or Modular controllers.
- Customizable default graphics for Siemens Field Level Network (FLN) devices based on the standard Niagara PX graphics, including pre-built graphic templates for the latest BACnet PTECs, ATECs, RDYs, DXRs, VFDs and Digital Meters (DM).
- Hierarchical navigation based on geographic site layout, AHU associations and logical network layouts.
- Quick navigation to individual buildings using hierarchies to monitor conditions and diagnose problems.
- Designed to interact with the Siemens BACnet PTEC, ATEC, RDY and DXR controllers.
- Ability to share templates, graphics, and other station database elements.
- Siemens Launch Pad integration.
- Ability to add and modify schedule and calendar objects, with optional synchronization with schedules and calendars in Siemens BACnet devices.
- Edit capabilities of the TC Compact or Modular database through the Siemens Launch Pad integration.
- Access to the PPCL programming of Siemens ALN and FLN devices.
- Export system data to external databases.

Hardware

Compatible with any TNM controller with hotspot VM (TNM-6, TNM-6E, TNM-7 and TNM-8000).

Compatible with TALON N4 Supervisor.

Specifications

Siemens N4 Appliance may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, and so on.

Processor	Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors
Operating System	Windows 7, 64-bit, Windows 10, 64-bit
Internet Browser	Microsoft Internet Explorer (IE) 9, 10 or 11, Edge, Chrome, or Mozilla Firefox current versions.
Memory	1 GB minimum, 4 GB or more recommended for larger systems
Hard Drive	4 GB minimum, more recommended depending on archiving requirements
Display	Video card and monitor capable of displaying 1024 x 768 pixel resolution or greater
Network Support	Ethernet adapter (10/100 Mb with RJ-45 connector
Connection	Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem)

To learn more about how to purchase, install and start using the Siemens N4 Appliance, please contact us.

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Your feedback is important to us. If you have comments about this document, please send them to SBT_technical.editor.us.sbt@siemens.com.

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