

enteliWEB 4.20 Release Notes

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Welcome

Delta Controls is pleased to release enteliWEB Version 4.20

This release notes document communicates important technical information about **enteliWEB build 4.20.236**

New Features in enteliWEB 4.20

enteliWEB 4.20 adds frequently requested features, bug fixes, as well as performance and security improvements.

BTL certification

enteliWEB 4.20.236 is BTL Listed.

Feature requests

Here are the partner feature requests that have been completed in enteliWEB 4.20

- Mass Trend Log creation. This feature allows user to create a large amount of trend logs through a single action.
- Create TL from object. This feature allows user to create a TL along with an object through a single action.
- enteliWEB Accordions sizing adjustments when many modules are installed
- Allow user to download files from eWEB backups and Run-Once Tasks

Workflow improvements

Here are the partner feature requests focused specifically on workflow improvement that have been completed in enteliWEB 4.20

- Mass Trend Log creation. This feature allows user to create a large amount of trend logs through a single action.
- Create TL from object. This feature allows user to create a TL along with an object through a single action
- Bulk Assign Tenants on User/Doors/Rights List Dashboard
- Search Improvements on graphics tree

Other Improvements

enteliWEB

- Start page for enteliWEB mobile scaling improvements
- Multitrend (MT) Library Engine Upgrade
- Special character support improvements

Access Control

- Access Role Dashboard Improvements and Optimization - Added optional list or card grid view for improved page loading performance. Reduced card size allowing more roles per page.
- Door Setup Dashboard - New dashboard providing mapping of cameras, doors, access points and zones. Ability to associate up to 4-cameras per access control door.
- Event Viewer Video Integration - Triggered camera recordings based on access control events.
- Scheduling Dashboard - Create and configure SCH and CAL objects using dashboard, eliminating the need to navigate to controllers to setup and access database

System Requirements

enteliWEB Deployment Planning Guide for IT Personnel

Delta Controls has created the *Deployment Planning Guide for enteliWEB 4.20* to provide guidance on planning a deployment of enteliWEB version 4.20. It can be found on the enteliWEB product page.

This guide encompasses the following topics: recommended server hardware, sizing, and software based on reference networks, TCP and UDP ports, services, security, installation guidelines, support, and troubleshooting.

The host server specifications below are considered the minimum requirement for enteliWEB. To select a server that will provide optimal performance and user experience for your site, see the Deployment Planning Guide for enteliWEB, found on the **enteliWEB product page**.

Host Server

Operating System

- Microsoft Windows Server 2019 Essentials, Standard and Datacenter editions are supported.
- Microsoft Windows Server 2016 Essentials, Standard and Datacenter editions are supported.
- Microsoft Windows Server 2012 Foundation, Essentials and Standard editions are supported.]

For small sites or tech/development machines, the following may be used:

- Microsoft Windows 11 Enterprise, Pro, IoT
- Microsoft Windows 10 Enterprise, Pro, IoT

Not Supported

- Microsoft Windows XP or Vista is not supported.
- Microsoft Windows 7 is not supported.
- Microsoft Windows 8 is not supported.
- Microsoft Windows Server 2003 is not supported.
- Microsoft Windows Server 2008 (any edition) is not supported.

Minimum Hardware Requirements

- Intel/AMD multi-core CPU @ 2GHz, 4GB RAM, 100 GB HDD space + 60 MB per year of meter data.
- enteliWEB's energy management system makes a local copy of the archived Historian/CopperCube data for each data point added to a meter, at a fixed 5-minute interval. Each data point consumes 30 MB of hard disk space per year of archived data, regardless of the number of samples in the archived data. For example, 5 meters having a demand and consumption data point (10 data points in total) with 5 years of historical data consumes nearly 1.5 GB of hard disk space (5 meters * 2 data points/meter * 30 MB/year * 5 years = 1500 MB = 1.46 GB).

Internet Information Services (IIS)

- Internet Information Services (IIS) is required for enteliWEB and the installer automatically installs it if not already installed.
- enteliWEB supports IPv4 only. It does not support IPv6.

PostgreSQL

- enteliWEB installs its own instance of PostgreSQL to store internal data which does not conflict with any existing PostgreSQL installation. The enteliWEB installer prompts you to create the Postgres user password. You must retain this password.
- enteliWEB's integrated PostgreSQL service runs on port **49900**. If port 49900 is in use at the time of installation/upgrade, the installer will find the next available port and use it instead.

Coexisting with ORCA software

- enteliWEB is independent of ORCA software and can be installed together with ORCAview and ORCAweb. enteliWEB and ORCA software can both connect to the same remote BACnet network (BBMD) as a foreign device, but they cannot share an Ethernet or BACnet Regular IP connection.

CopperCube or Historian Database Support

- enteliWEB relies on a CopperCube or Historian database that resides on a separate server to supply trend log data for energy reporting and historical trends.
- enteliWEB supports MySQL and Microsoft SQL Historian databases. The Historian server, database, and remote connections must be set up prior to configuring Historian's relationship with enteliWEB. Refer to Historian documentation. See KBA2016 for the procedure to enable the SQL database to allow remote TCP/IP connections as required by enteliWEB to retrieve energy data.
- enteliWEB utilizes web services to retrieve CopperCube data.
- **Use CopperCube 1.32 release or higher**

CopperCube Compatibility

The following table lists all versions of enteliWEB and CopperCube. Supported combinations show a  and unsupported show a .

Unsupported combinations may function, but Delta does not provide support should problems occur.

enteliWEB Versions	CopperCube Versions											
	1.06	1.11	1.20	1.21	1.23	1.30	1.31	1.32	1.33	1.40	1.41	
2.1												
2.2												
4.0												
4.1												
4.2												
4.3												
4.4												
4.5												
4.6												
4.7												
4.8												
4.9												
4.11												
4.12												
4.13												
4.14												
4.15												
4.16												
4.17												
4.18												
4.19												
4.20												

Client

Operating System

- Microsoft Windows 10 (Enterprise, Pro, Education, IoT) / Server 2012 / Server 2016 / Server 2019
- Apple Mac OS 10.4+

Supported Browsers - enteliWEB

	Windows Desktop/Laptop	Apple Desktop/Laptop	Android Phone/Tablet	iOS Phone/Tablet
Chrome	80+	80+	73+	70+
Firefox	73+	73+	66+	14+
Edge	80+	✘	✘	✘
Internet Explorer	11+	✘	✘	✘
Safari	✘	13+	✘	10+

Supported Browsers - enteliVIZ HTML5

	Windows Desktop/Laptop	Apple Desktop/Laptop	Android Phone/Tablet	iOS Phone/Tablet
Chrome	48+	48+	48+	48+
Firefox	40+	40+	40+	40+
Edge	27+	✘	✘	✘
Internet Explorer	✘	✘	✘	✘
Safari	✘	8.0.8+	✘	8.0.8+

Screen Resolution

- enteliWEB is designed to be viewed at a minimum screen resolution of 1280 x 1024.

Tablet/Mobile Device Compatibility

- Enterprise, Personal, and Energy dashboards, and the BACnet object pages are optimized for phone and tablet viewing.
- Some views may not take full advantage of tablet form factor but they are all fully functional.
- enteliVIZ HTML5 and ORCA SVG based graphics work on tablets and phones.
- enteliVIZ graphics that are Flash based (previous to enteliWEB 4.1 release) require a mobile browser that supports Flash (such as Photon) in order to be viewed. (Please note: In 2017, Adobe announced that it would stop updating and distributing its Flash Player at the end of 2020. The same day, Google, Microsoft, and Mozilla announced that they would start reducing support for Flash on their browsers and would fully disable Flash functionality by the end of 2020. Please refer: <https://support.deltacontrols.com/Support/Kbase/KbA2419?ticket=ST-3557-ceqZApmsSteZKtdQVxdv-cas>)

enteliWEB Ordering and Subscription Renewals

Please go to the [License Management Portal](#) to build and price your enteliWEB order. For a description of license options and subscriptions please refer to the enteliWEB Licensing and Subscription Guide.

Important Licensing Information

enteliWEB requires a software license to run. The serial number is sent to your company when the order is placed. The serial number is required during installation.

You can activate the license over an Internet connection or by using email.

Every enteliWEB option works on a **Virtual Machine (VM)** installation, however, it requires the server to have a **permanent Internet connection**, so that enteliWEB can communicate with Delta's licensing servers.

It is recommended that you order the "Offline Virtual Machine" option for ALL virtual machine installations, to avoid the possibility of IT network /firewall changes to cause enteliWEB to report a license issue and stop running.

Order the **-VM**, with the appropriate base enteliWEB. Refer to the [License Management Portal](#) to price and order this option.

Summary:

- Offline VM = -VM add-on is required
- Online VM = -VM add-on is recommended

Note - *To help expedite your order, please specify the Site Name and Site Address when placing your order. The Site Name will be displayed in the header bar of enteliWEB.*

enteliWEB includes a one-year software maintenance subscription. For information about software maintenance, see enteliWEB Licensing and Subscription Guide on George.

To prevent data loss in the event of upgrade problems, enteliWEB data should be backed up before the upgrade is performed. Instructions in the Upgrade section.

To use, view, or design enteliVIZ graphics, you must first purchase or upgrade your license to a version that enables this feature. Please contact RMA for upgrades.

enteliWEB Support Life Cycle

Delta Controls releases new versions of enteliWEB on a regular cadence. Each version of enteliWEB is officially supported for 24 months after it is superseded by the next version. When a version of enteliWEB is superseded by a new release, our support team will recommend upgrading to that new version to fix known issues in prior versions.

enteliWEB 4.20 support will end in December 2023

See <https://support.deltacontrols.com/Support/EwebSupport> for more information.

Installing enteliWEB for the First Time

For detailed instructions on installing enteliWEB see the enteliWEB Installation Guide.

Install the Software and Activate the License



enteliVIZ Host Limitations

When activating your enteliWEB license, do not enter more than 10 hosts. enteliVIZ HTML5 will reject any requests for more than 10 hosts. The Hosts section in the license is only for enteliVIZ. enteliWEB itself does not look at the host section at all.

The Hosts section is only used for the URL to access enteliVIZ. It has nothing to do with BACnet connectivity. The following hosts should cover the majority of cases:

- Localhost (<http://localhost/enteliweb>)
- 127.0.0.1 (<http://127.0.0.1/enteliweb>)
- MyMachineName (<http://MyMachineName/enteliweb>)

The only time that the Hosts section needs expanding is if you access your enteliWEB/enteliVIZ remotely AND use an IP address instead of a hostname:

- <http://10.10.1.8/enteliweb>
- <http://10.11.1.9/enteliweb>
- <http://10.8.0.1/enteliweb>
- To avoid having to enter new host IP addresses as you switch networks, we recommend accessing enteliWEB by a hostname, such as <http://MyMachineName/enteliweb>

1. Make sure the server meets the requirements specified in the Host Server section of these release notes.
2. Run Windows Update to check for any available updates.
 - a. If updates exist, install them and restart your machine to finish applying them.
 - b. Repeat step 2 until all updates have been applied.
3. Run enteliWEBSetup.exe in the installer folder. It guides you through the installation process and automatically installs the required components including IIS, Delta Software License Manager utility, BACnet Server, PostgreSQL and enteliWEB. You are prompted to define a password for the enteliWEB Admin user and for the PostgreSQL root user. Remember these passwords!

Notes

- enteliWEB utilizes Internet Information Services (IIS). enteliWEB installs IIS for you.
 - enteliWEB installs its own instance of PostgreSQL to store internal data. It does not conflict with an existing PostgreSQL installation.
4. Run Windows Update to install the latest patches on the enteliWEB server.
 5. Activate the enteliWEB license with the 30-character license serial number you received from Delta Controls. The Delta Controls License Manager opens and allows you to activate the license. See the Software License Manager User Guide in the installer folder for additional information.

Change Password Strength Settings

It is recommended that you improve the password strength settings that apply to the passwords for all users, including the Admin user, as follows:

1. Click 
2. Click Password Settings.
3. Adjust the settings to meet your needs.
4. Click Save.

Review User Lockout Settings

It is recommended that you review the user lockout settings to ensure they are suitable for your installation, as follows:

1. Click 
2. Click User Lockout Settings.
3. Adjust the settings to meet your needs.
4. Click Save.

Automatic user unlock is by default enabled with a time period of 60 minutes to alleviate users accidentally locking themselves out.

Create Alternative Admin User

It is recommended that you create at least one alternate Admin user in case of an accidental lockout, as follows.

1. Click 
2. Click Users.
3. Click Admin in the list of usernames. The Admin user account page opens.
4. Click Copy User. The Create User page opens. All permissions are copied from Admin to a new admin user.
5. Enter Username and Password for the alternative admin user.
6. Click Create. The user account opens for the new admin user.
7. Make any final adjustments and click Save.

Upgrading enteliWEB from Earlier Versions

When upgrading enteliWEB from an earlier version, it is important to follow these procedures. Plan your upgrade in such a way as to minimize service disruption. Give yourself plenty of time, ideally during Delta Tech Support operating hours in case of an unexpected problem. If the site is sensitive to service disruption, Delta can advise you on multi-server arrangements that allow you to test the upgrade on one server, while leaving the main server in operation.



Important: Please note the following essential items

Backup/Restore Compatibility

enteliWEB 4.15 or higher only supports restoring backups from enteliWEB 4.11 or newer.

Supported Upgrade Path

Delta Controls tests and supports the following upgrade scenarios:

Installed Version	Upgrade Path
2.0 2.1	Upgrade to 2.2, then upgrade to 4.5, then upgrade to 4.11, then upgrade to 4.20
2.2 4.0 4.1 4.2 4.3 4.4	Upgrade to 4.5, then upgrade to 4.11, then upgrade to 4.20
4.5	Upgrade to 4.11, then upgrade to 4.20
4.6 4.7 4.8 4.9	Upgrade to 4.13 R2, then upgrade to 4.20
4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19	Upgrade to 4.20

Back Up enteliWEB Prior to Upgrade

To prevent data loss in the event of upgrade problems, perform a backup of enteliWEB as described below before starting an upgrade.

1. Log on as the Admin user.
2. Navigate to Administration > Support.
3. Click Back Up to begin the enteliWEB configuration back up process.
4. When the enteliWEB configuration back up is completed, consider whether you need to back up the following additional items:
 - a. Application module configuration data. When an application module stores configuration data in its module folder that resides inside website/application/modules, then that data is backed up by the enteliWEB back up function. Otherwise, your application module configuration data must be backed up separately by a tool or process that is outside of enteliWEB.
 - b. Log and event data. The enteliWEB back up function skips log and event database tables due to their potential size. If this data must be retained, follow the procedures in Kba1953 to manually backup these tables.

Upgrade enteliWEB

1. Run Windows Update to check for any available updates.
 - a. If updates exist, install them and restart your machine to finish applying them.
 - b. Repeat step 1 until all updates have been applied.
2. Run enteliWEBSetup.exe in the enteliWEB installer folder. It guides you through the installation process and automatically installs and upgrades the required components.

Update Application Modules

Application modules may need to be updated after upgrading to a new version of enteliWEB as a result of changes to underlying functionality. If an application module does not specify that it is supported in that particular version of enteliWEB, it is disabled.



If you are using modules, including enteliSYNC, ensure you have updated versions compatible with enteliWEB 4.20 before starting your upgrade.

If your module was created by Delta's PAS department, please consult with them prior to any version upgrade. Otherwise, refer to the Application Module Support in the help documentation to ensure your module is up to date.

Custom Application Modules

If you are upgrading from version 4.4 or earlier, when enteliWEB 4.5 or later is installed, all application modules disappear from the enteliWEB UI. Please read the Help documentation and follow the procedure in order to be able to install the modules using the new Manage Modules UI, after which they will reappear on the UI.

System Limitations

The following limitations apply to this release. Note this is simply a list of frequently asked about features. Please consult with Delta Controls if you need clarification on other possible features/system limitations.

- Multiple Historians on 1 site are supported however, only 1 Historian machine can be configured for use for Energy Management per site.
- enteliWEB supports a maximum of 2500 meters. When connecting hundreds of meters be sure to use a very capable server. See System Requirements.
- Although there are no restrictions as to the number of sites that can be created and connections that can be added, nor are there any restrictions to the number of devices and descriptors that can be connected, performance issues may occur if exceeding the following limits (depending on the server):
 - Sites: 250
 - Total connections: 250
 - Total devices: 10,000
 - Total descriptors: 1.7 million
- For BACnet Secure Connect (BACnet/SC) enteliWEB supports up to 100 nodes. This can be 100 nodes connecting to a single hub within enteliWEB, 100 nodes connecting to 100 hubs within enteliWEB (1 node to 1 hub), or anything in between. The total number of nodes cannot exceed 100 at this time, and will be expanded in the future. Each node may route to many other devices on its local network through BACnet/IP, BACnet/Ethernet, etc.
- Although there are no restrictions as to the number of users that can be created, performance issues may occur if exceeding the following limits (depends on the server):
 - Total Users Created: 5,000 (including enteliWEB Users, O3 App Users, and LDAP Users)
 - Concurrent Active Users: 100 (logged into enteliWEB)
 - Concurrent Active O3 App Users: 1,000 (using the O3 app)
 - Users Searched in Connected LDAP Server: 50,000 (based on the Base DN configured in the LDAP settings)
- enteliVIZ Flash files (.dgmI) cannot be automatically converted to HTML5 (.dg5). The Flash-based graphics continue to work, and you are able to edit them using the Flash-based designer. (Please note: In 2017, Adobe announced that it would stop updating and distributing its Flash Player at the end of 2020. The same day, Google, Microsoft, and Mozilla announced that they would start reducing support for Flash on their browsers and would fully disable Flash functionality by the end of 2020. Please refer: <https://support.deltacontrols.com/Support/Kbase/KbA2419?ticket=ST-3557-ceqZApmsSteZKtdQVxdv-cas>)
- enteliVIZ HTML5: Delta continually improves and adds to the graphic pallets within enteliVIZ. As a result, graphics are not fully backward compatible, and cannot be used in an older version of the product. For example, graphics created in enteliWEB 4.6 should not be loaded into an enteliWEB 4.5 server.
- File Upload Limit - file upload is limited to 100 MB (e.g. Graphics).

Implemented Items

The following notable issues, features, and enhancements were implemented in version 4.20.xx:

Feature requests and enhancements:

Category	Item ID	Summary
Access Control	EWEB-37485	Bulk Assign Tenants on User/Doors/Rights List Dashboard
BACnet Objects	EWEB-36022	Upgrade the charting library in MT Object Page
General	EWEB-36145	Accordion sizing improvements when many modules are installed
General	EWEB-35410	Allow user to download files from eWEB backups and Run-Once Tasks
General	EWEB-37132	Ext JS 7 Upgrade
Graphics	EWEB-36252	Search function improvements in Graphics Tree (Now searches based on Project Name instead of ID)
Administration	EWEB-37995	Special Character characters in user name improvements (ß)

Resolved issues:

Category	Item ID	Summary
General	EWEB-37606	Cannot Enable or Disable UDP/IP Port Using eWEB 4.16/4.17/4.18/4.19
Access Control	EWEB-37440	Vivotek Surveillance: Using secure eWEB/VAST, playback recording time is incorrect and cannot download video successfully
Access Control	EWEB-37682	Dashboard: If you do not show the Name column you cannot edit the user
Access Control	EWEB-37569	Access User: Not able to create a user when unassigned access rights are selected
Energy Management	EWEB-37020	Meter import displays 0% even after complete import
Energy Management	EWEB-36074	Consumption Chart Widget does not display target data
Mobile	EWEB-36639	Start page for enteliWEB does not open in full screen for mobile devices
Administration	EWEB-31702	Alerts Page times out after 30 seconds

Known Issues

Known issues recently identified

Category	Reference	Description	Target Fix Version
Access Control	EWEB-38447	Event Viewer Dashboard: Events page take 30+ seconds to load (with cameras setup)	4.21
Access Control	EWEB-38744	Scheduling Dashboard: SCH/CAL objects can be deleted without Scheduling UI delete permissions	4.21
General	EWEB-38073	Manage Device Firmware: Grid selection has issues	4.21
General	EWEB-37922	Inconsistent number of decimals displayed in TL panel	4.22

Known issues carried forward from previous versions

Category	Reference	Description	Target Fix Version
General Issues	EWEB-31053	Cannot start auto-created save database task when the site name is long	Future
	EWEB-32479	Saving FIL object to zob file does not include the FIL object contents	Future
	EWEB-32858	enteliWEB server slows while performing full site database backups on very large networks	Future
	EWEB-34774	The report is Blank when device_status Column Added	4.21
	EWEB-36242	"Unknown Site" error when changing the UDP port for a site with UTF-8 characters in its name	4.21
	EWEB-36267	Object with Write permission cannot be written to when the ORS is locked	4.21
	EWEB-36340	GCL Editor: CredentialReader.PIN property gets changed to boolean instead of a string	future
Access Control	EWEB-31304	eSYNC: copy and pasting a schedule in eSYNC master database causes the entries to be changed	Future
	EWEB-32031	Access Door Heat Map Widget: Use "User Activity" permission for widget instead of "User Credentials"	Future
	EWEB-31963	Selecting empty Site Name (All Sites), shows events from deleted sites	Future
	EWEB-32780	CU objects do not appear for ASM-24E in navigator.	Future
	EWEB-33803	Access Control accordion in eWEB is not hidden when eSYNC is uninstalled	Future
	EWEB-34357	eSYNC Configuration page can sometimes show permission denied error after upgrade/backup/restore. As a workaround, restart the DeltaPostgreSQL service	Future
	EWEB-35976	Access Multi-tenant: TenantAdmin editing "Common" role, sometimes doesn't see any access rights. To workaround, reload the browser page.	4.21
	EWEB-36066	Access Multi-tenant: Changing User's tenancy does not filter available roles/rights to match tenancy. Save is required.	4.21
API	EWEB-30709	Unable to write to the EVC destination-list array using the API	Future
	EWEB-31790	Unable to set certain properties for the BDE object when creating them through the API	4.21
	EWEB-31791	Unable to get several MT values through .multi in API	4.21
Backup /Restore	EWEB-17576	Unable to restore enteliWEB backup if path exceeds 189 characters	4.21
	EWEB-32755	Downloading a large backup truncates the file to 2 GB	4.21
	EWEB-34786	Uninstalling enteliWEB with keep configuration settings checked, database backup does not include log nor event tables	Future
BACnet/SC	EWEB-32972	A revoked node should not appear in the approval grid	Future
Energy Management	EWEB-32831	Custom meter units do not appear in Energy View	4.21
GCL Editor	EWEB-33262	Remote object reference is wrong when a local object has the same name	Future
Installation /Upgrades	EWEB-33469	Running a repair of enteliWEB will remove 'Delta Controls License Service' from Windows Task Scheduler	4.21
	EWEB-33326	Prevent enteliWEB's installer from running as the built-in Windows Administrator user	Future
	EWEB-35989	Fresh install of 4.17 fails at Application Files stage	Future
Object Creation Wizard	EWEB-31653	Cannot use database creation wizard when the device is offline	Future
	EWEB-32249	Power injector address and module position are not defined when creating an O3-DIN-CPU	Future

Object Dialogs		Object Pages - the following objects dialogs have not been completed: DEL, LCD, MN, CEL, SDL, RPS, PAN, SD, SUG, DBI, GWS, GWD, GWF, BCP	TBD
	EWEB-12620	GCL Editor Program Timers Restart - Saving a PG using enteliWEB will cause all time-dependent functions within that PG to restart or re-execute. This is different behaviour from ORCAView which will only restart or re-execute these functions if you change that particular line. Essentially when enteliWEB edits an existing program, the controller "sees" this as an entirely new program, and all contents of the program are "reset". The following functions are affected: <ul style="list-style-type: none"> • DoEvery will restart its timer. • OnFor/OffFor will restart its timer. • IfOnce will re-evaluate its condition and if true will execute its statements. • Changed will return true if the value doesn't match the default value for the particular type of value (e.g. if the value is 5, Changed will return true because it doesn't match the default 0). Also, variables will be re-declared causing them to revert to their initial value (e.g. 0), so make sure they are initialized accordingly.	TBD
	EWEB-28674	GCL: String value is interpreted as State Text when MV object containing similar State is referenced in editor.	Future
	EWEB-37528	MT CSV Dowload Performance Issues	4.21
	EWEB-36481	TL Charting Library: TL trend retraces back for fast changing trends and COV 5, 30 Seconds.	4.21
Navigator	EWEB-33655	Unable to load V3 database into an eBMGR-TCH	Future
	EWEB-34449	Object List: When creating a filter for both the CAL and SCH objects in manual, the filter does not display the SCH objects in manual.	4.21
enteliVIZ 5	EWEB-34315	Some sites in the Graphic accordion cannot be expanded when searched for	4.21
	EWEB-33760	Back button doesn't work properly when used with a Set State action	4.21
	EWEB-33843	Under certain conditions, cannot view any eVIZ graphics if Manage Sites is not enabled for the group	4.21
Reporting	EWEB-18436	No chart is generated in the Consumption by Time report, if one of the meters does not contain the full range of data.	4.21
	EWEB-18758	Columns are not formatted correctly in the Excel report output.	Future
	EWEB-24214	Access Control Reports: Excel file cannot be generated when detail query parameters is a long list.	Future
	EWEB-19326	In the Trend Log report, samples returned in generated report are inconsistent with TL object page, if the sample timestamp has millisecond changes.	Future
	EWEB-31445	Object Queries should convert numeric values to text when the property type is text	Future
	EWEB-31877	TL report does not show an MV's data if the state is the same within the specified range	4.21
	EWEB-32957	Object query report does not return any results when including all devices on a very large network	4.21
	EWEB-34490	Reports tree does not populate on big sites	Future
User Management	EWEB-33260	LDAP Sync: running another sync will remove user groups manually added to a user	4.21
	EWEB-33182	Start Page dropdown list does not populate	4.21

Firmware Loader Supported Hardware

This table specifies the hardware and firmware versions currently supported by Firmware Loader.

Product Family	Model Name	Hardware Revision	Firmware Versions
enteliBUS 2	eBCON*, eBMGR*	r*.* [DCE 2 r*]	3.40, 4.*
O3	All	All	All

Automatic Workarounds for Vendors with Incorrect BACnet Implementations

This table lists the vendors and device models that are known to have incorrect BACnet implementations. The BACnet engine in enteliWEB has implemented special handling to deal these devices.

Vendor	Model	Issues	Reference
002 - Trane	BCI-R Precedent, Voyager, or Odyssey	Trane devices claim to support segmentation, but timeout on responding to a segmented request	QS-5451
005 - JCI NAE	MS-NAE*	JCI NAE devices claim to support segmentation but fail with Reject::Buffer-overflow when the object list is queried.	QS-3904
018 - Alerton	<ul style="list-style-type: none"> • BTI-100 Controller • VAV-SDC3 • VLC-1188 • VLC-550 • VLC-1188C3 • VLC-651RC3 	Alerton devices claim support for RPM (read property multiple) but fail to respond.	QS-2779 QS-5211
036 - Tridium	Tridium NiagaraAX Station	Tridium NiagaraAX Stations claim to support segmentation, but it doesn't work.	QS-5192
247 - Ingenieurgesellschaft N. Hartleb mbH	BACnGTW-SMART BACnGTW-MPC2x	The BACnet-Gateway does not increment the database revision number when an object is created.	QS-5197

Document Control

Revision	Date	Changes
1	December 14, 2021	Created document to accompany build 4.20.236
2	January 7, 2022	Support for Windows 10 Education and Windows 10 IoT added in "System Requirements: Client: Operating System" Section
3	January 19, 2022	Support for Windows 11 added in "System Requirements" section. Added BTL certification