




CygNet Thin Web Client v1.2 Release Notes

Release Date: December 15, 2023

This document describes features and changes included in the CygNet Thin Web Client v1.2.

The CygNet Thin Web Client v1.2 is compatible with CygNet v9.6 and v9.7.

For instructions on updating your host, refer to the  [CygNet v9.7 Upgrade Procedure](#) for more information.

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CygNet Thin Web Client Overview

The **CygNet Thin Web Client** (TWC) is CygNet's browser-based Human-Machine Interface (HMI) client application, which allows users to view operational screens and workflows in a web browser using sophisticated web-based technologies. The Thin Web Client is a Single Page Application (SPA) that is built using customer provided and built screens. Those screens are constructed using the design and screen building components of the Canvas desktop client. Use Canvas to layout HMI components onto a screen (a page of controls) and configure a logical workflow between controls on the screen and other related screens. When published, those screens are converted and compiled into the SPA that resides on the main TWC server.

This document describes enhancements, modifications, and fixes to CygNet Thin Web Client v1.2 and Canvas in CygNet v9.7.

Product Lifecycle

For more information on the lifecycle of CygNet components, refer to the **CygNet Software Product Lifecycle Matrices** on the [Software Support portal](#) (login required) under **CygNet Software > Maintenance & Support Info**.

Upgrade Assistance

Upgrade assistance is provided through prepaid professional service hours provided with your annual services subscription or through time-and-materials consulting services. If you need assistance in planning, upgrading, or deploying this release, please contact CygNet Support for more information about these options. Contact CygNet Support at the [Software Support portal](#) (login required), via phone at 1-866-4CYGNET (1-866-429-4638), or via email at [CygNet Support](#).

CygNet Documentation

Refer to the [CygNet Help](#) for user assistance. The online help is best viewed in Microsoft Edge or Google Chrome browser. Microsoft Internet Explorer 11 is not supported.

Refer to the following sections of the [CygNet Help](#) for further user assistance:

- [Canvas Help](#)
- [CygNet Thin Web Client Help](#)

CygNet TWC Sample Screen Library

A set of sample Canvas screens is available for download from the [CygNet Download Site](#) (login required). These screens can be modified to work against your CygNet system to create TWC screens and applications.

Changes in CygNet TWC v1.2

This section describes major features in CygNet Thin Web Client (TWC) v1.2.

General TWC Features

The following changes have been made in TWC v1.2.

TWC Publishing

- Fixed a publishing issue where a screen containing a control with a **very long ControlName** failed to publish. This is now fixed.
- Fixed a publishing issue where a Canvas file name **containing a – (hyphen)** failed to publish. This is now fixed.
- Fixed a **viewing issue** viewing TWC applications and screens in the Web client view where the screens of one application could not be viewed, but if the same screens were included in a different application they were accessible in the Web view. Previously, if you publish an Application1 containing two screens (Screen1 and Screen2), then modified Screen1, and created a new Application2 containing the same screens, then published Application2, Screen2 did not get updated in the page directive of Application2, resulting in a 404 error when attempting to view Screen2 in Application2. While Force publishing Application2 did rectify this issue, it has been fixed and all screens in all applications will now display as expected.

TWC Context Menu

- An optional **Chart** has been added to the TWC context menu for any control displaying analog point data. When enabled the trend displays the last eight hours of value history and updates with each new point value. Hover over any point in the trend to see the point value.
- Fixed a **display issue for a navigated screen** (inclusive of all controls on the screen) that is opened in a separate modal window by controls that support hyperlink modal mode navigation (**Alarm Grid, CygNet Grid, and Navigation Button**). Previously, the context menu was opening within the modal window, rather than on the right of the main browser screen. This is now fixed and the context menu for any point on any control on the navigated screen opens in the expected location.
- Fixed an issue with the **display** of the context menu in the Web client view. Previously when trying to view a context menu for any control on a screen containing multiple single-value controls configured to only receive their facilities from the screen, the context menu failed to display.

Canvas Controls

The following changes have been made to the Canvas client as part of CygNet Thin Web Client v1.2.

Alarm Grid

- The Alarm Grid now **sends multiple facilities** to other controls as soon as they receive data in the Web client view. Refer to the [CygNet Help](#) for more information about using the **Facility sender mode** property (*All facilities* option), which supports this feature.
- Grid columns will be displayed in the Web client view when the **Visible** property is selected, as expected. Previously if the Visible check box was disabled for any column, that column was still displayed in the Web view.

- Added **new color options** under the existing **Color configuration** property to support customization of the background and text color of the grid's header, and the grid's background color. The following properties are now supported:
 - **Header background color** (ColorConfiguration.HeaderBackgroundSource and ColorConfiguration.HeaderBackgroundSelfColor)
 - **Header text color** (ColorConfiguration.HeaderTextSource and ColorConfiguration.HeaderTextSelfColor)
 - **Grid background color** (ColorConfiguration.GridBackgroundSource and ColorConfiguration.GridBackgroundSelfColor)

These properties are supported by the Thin Web Client.

- Fixed an issue with the Alarm Grid so that the grid now **displays configured columns, column headers, and data rows as expected** in the Web client view. Previously, the grid failed to display the column headers in the web view when the row configuration SiteService source came from the screen.
- Fixed a TWC **context menu display issue for a navigated screen** (inclusive of all controls on the screen) that is opened in a separate modal window by an Alarm Grid via hyperlink modal mode navigation. Previously, the context menu was opening within the modal window, rather than on the right of the main browser screen. This is now fixed and the context menu for any point on any control on the navigated screen opens in the expected location.
- Fixed an issue so that the optional **alarm filter toolbar** displays in the Web client view only when filters are defined. Previously the Alarm Grid included an empty toolbar, even when no filters were defined.
- Fixed an issue where the Alarm Grid failed to display data in the Web client view when the Site Service was embedded in the screen via the CygNet connection and the **Site Service** for the Alarm Grid was **sourced from the screen**.

Button

- The Button now supports **background blinking for unacknowledged alarms** in the Canvas view. The simple Button is not supported in the Thin Web Client.

Chart

- The Chart now supports **live updating** in the Web client view. You can now enable live updates and set an update rate in Canvas for the Web client mode. As live data is received for the associated point, the series line will update to trend data at a real-time pace in the web view.
- Added a property to the Chart to **hide data points based on their unreliable point state**. Enable **Hide unreliable points** (AreUnreliablePointsHidden) to hide data points in a chart if the points are marked as unreliable. When Hide unreliable points is disabled, unreliable data points will be shown on the chart. This property is supported in both native Canvas view and the Web client mode.
- The Chart now **displays data correctly** in the Web client view. Previously the chart displayed vertical spikes in series data rendering some data points erroneously.
- Fixed an issue with a Chart series with a **hard-coded SiteService and/or facility override**. Previously, if a chart was configured to receive its SiteService and/or facility from another control or the screen and a series was configured with an override, the series did not display in the chart in the Web client view. Other series without an override displayed as expected.

Detail Control

- The **Detail** control is now supported by the Thin Web Client. This single-value control displays real-time data for a single point in multiple formats within the same control. The control contains the following elements:
 - Three **tokenized text strings** (top, middle and bottom).
 - A small **sparkline** with configurable line color and date ranges, both relative and absolute.
 - An arrow used to **flip the detail control** and display a Canvas object on the reverse side of the control. The object will receive its point and facility configuration from the detail control.
 - A **context menu** showing current value attributes, alarm acknowledgment, alarm summary details, and a trend of recent value history.

In Canvas, non-supported properties are hidden when the target environment is Web client.

- Known Issue: When presenting multiple Detail screens that flip to a Donut object in the Web view, be aware that the **text size** of the second and other Donut screens may be distorted.

Donut

- Fixed a **display issue** with the Donut where the control failed to display an "**Invalid bounds**" label in both Canvas view and the Web client view when the **Hide invalid bounds** property was unchecked (the default behavior) and the bound **Source** configuration used a *Point Attribute* with a default bound Id of *Invalid*. The control will now correctly hide a donut's value ring and alarm ranges and display an "Invalid bounds" label if the bounds are not correctly configured when the **Hide invalid bounds** property is unchecked.
- Known Issue: When presenting multiple Nested View controls that reference a Donut screen or multiple Detail screens that flip to a Donut object in the Web view, be aware that the **text size** of the second and other Donut screens may be distorted.
- Known Issue: A Donut control may continue to **display** in the Web view when the Donut is configured with a valid facility-related text token and a valid CygNet facility, even if an **invalid UDC** is configured and the **Hide invalid tag** check box is enabled.

Dynagraph

- A **Dynagraph** control is now available to provide a window into rod-pump well performance by displaying dynagraph cards for the available Pump-Off Control (POC) facilities in your CygNet system. The control contains a card plot area displaying selected dynagraph card(s), to graphically illustrate load versus position data. Load (in pounds) is plotted on the vertical axis; surface position (in inches) is plotted on the horizontal axis. An optional run-mode context menu is available to communicate with devices to retrieve card data, and retrieve and edit pump-off configuration data and fluid fill setpoint data. The dynagraph control is not supported in the CygNet Thin Web Client R1.2.

CygNet Grid

- The CygNet Grid now **sends multiple facilities** to other controls as soon as they receive data in the Web client view. Refer to the [CygNet Help](#) for more information about using the **Facility sender mode** property (All facilities option), which supports this feature.
- Grid columns will be displayed in the Web client view when the **Visible** property is selected, as expected. Previously if the Visible check box was disabled for any column, that column was still displayed in the Web view.

- Added a **Color configuration** property (GridColorConfiguration) to support customization of the background and text color of the grid's header, and the grid's background color. The following properties are now supported:
 - **Header background color** (GridColorConfiguration.HeaderBackgroundSource and GridColorConfiguration.HeaderBackgroundSelfColor)
 - **Header text color** (GridColorConfiguration.HeaderTextSource and GridColorConfiguration.HeaderTextSelfColor)
 - **Grid background color** (GridColorConfiguration.GridBackgroundSource and GridColorConfiguration.GridBackgroundSelfColor)

These properties are supported by the Thin Web Client.

- Fixed a TWC **context menu display issue for a navigated screen** (inclusive of all controls on the screen) that is opened in a separate modal window by a CygNet Grid via hyperlink modal mode navigation. Previously, the context menu was opening within the modal window, rather than on the right of the main browser screen. This is now fixed and the context menu for any point on any control on the navigated screen opens in the expected location.
- Fixed an issue where the CygNet Grid failed to display data in the Web client view when the facility was embedded in the screen via the CygNet connection, and the row's **facility** for the CygNet Grid was **sourced from the screen**.

Image

- The **Size mode** (ImageSizeMode) property is now supported by the Thin Web Client. Fixed a display issue for the Image control in the Web client view so that the **Auto option** for the Size mode property is now applied correctly and images will scale without distortion. Refer to the [CygNet Help](#) for more details about the **Size mode** property and its two modes: *Stretch* or *Auto*.
- Fixed an issue with the Image control so that the control now displays an "**Invalid tag**" message on the image in both the Canvas view and Web client view when a valid text token is configured, but no point is configured and data retrieval is suppressed. Previously, the image displayed the actual text token on the image, e.g., %value%, rather than warning you that the tag was invalid.
- Fixed an issue with the Image control so that the control now displays an "**Invalid tag**" message on the image in both the Canvas view and Web client view when a valid text token is configured, but an invalid point is configured (either an invalid facility ID or an invalid UDC) and data retrieval is suppressed. Previously, the control displayed nothing (in Canvas View) and the actual text token on the image, e.g., %value%, (in the Web view) rather than warning you that the tag is invalid. The same behavior was observed when the image was configured to be a facility receiver and it received an invalid facility tag.
- Fixed an issue with the Image so that the **default missing image icon** and any **configured point data** will display as expected in both Canvas run mode and the Web client view. Previously point data displayed on the control only if an image was selected. If point data was configured, but no image was configured, neither the data nor the missing image icon displayed in the control.

Linear Gauges

- Fixed a **display issue** with the Linear Gauges where the control failed to display an "**Invalid bounds**" label in both Canvas view and the Web client view when the **Hide invalid bounds** property was unchecked (the default behavior) and the bound **Source** configuration used a *Point Attribute* with a default bound Id of *Invalid*. The control will now correctly hide a linear gauge's value bar and scales and display an "Invalid bounds" label if the bounds are not correctly configured when the **Hide invalid bounds** property is unchecked.

Media Viewer

- A **Media Viewer** control is now available to add videos to your Canvas screens. The control supports most widely used video file formats (.mp4, .mov, .wmv, .avi, .flv). Two **playback options** are available: *Auto*, where the video plays continuously in a loop (the user has no control over play and pause functions as those buttons are invisible); or *Manual*, where playback is handled by play and pause buttons. A slider is always visible in run mode to move the video forwards and backwards. The media viewer control is not supported in the CygNet Thin Web Client v1.2.

Navigation Button

- An **image** is now supported on the Navigation Button in Canvas Web mode when preparing a screen for the display in the Web client view.
- The Navigation Button now supports **background blinking for unacknowledged alarms** in both the Canvas view and the Web client view.
- Fixed a **facility-receiving issue** with the Navigation Button in the Web client view. Previously, when a navigation button was configured to receive its facility from the screen or another control, and the **Suppress data retrieval** option was enabled, the button was not receiving the facility. This behavior prevented the navigation button from passing its facility to a navigated screen. This is now fixed and the navigation button will properly receive its facility and pass it to navigated screens, which in turn display appropriate CygNet data on the navigated screen.
- Fixed a TWC **context menu display issue for a navigated screen** (inclusive of all controls on the screen) that is opened in a separate modal window by a Navigation Button via hyperlink modal mode navigation. Previously, the context menu was opening within the modal window, rather than on the right of the main browser screen. This is now fixed and the context menu for any point on any control on the navigated screen opens in the expected location.
- Fixed an issue with the Navigation Button where the button fails to display an "**Invalid tag**" message in the Web client view when an invalid point is configured (either an invalid facility or an invalid UDC).

Nested View

- Known Issue: When presenting multiple Nested View controls that reference a Donut screen in the Web view, be aware that the **text size** of the second and other Donut screens may be distorted.

SetPoint Button

- The SetPoint Button now supports **background blinking for unacknowledged alarms** in both the Canvas view and the Web client view.
- Fixed an issue with a **SetPoint Button in a Nested View** in the Web client view. Previously if a Nested View contained a screen with a setpoint button, and the user invoked the SetPoint dialog box, the popup did not open on the main browser screen, but was confined within the nested view. This is now fixed and the SetPoint popup opens outside the nested view on the main browser screen.
- Fixed a display issue with the **prompt dialog box** for the SetPoint Button in the Web client view. Previously, styling errors made the dialog box inoperable.

Sparkline

- The **Sparkline** control is now supported for inclusion on screens viewed in the Thin Web Client. In Canvas, non-supported properties are hidden when the target environment is Web client.
- The Sparkline now supports **live updating** in the Web client view. You can now enable live updates and set an update rate in Canvas for the Web client mode. As live data is received for the associated point, the series line will update to trend data at a real-time pace in the web view.

Tag Chooser

- A collapsible and hidden **Tag chooser** is now supported in both the native Canvas view and Web client view environments. This type of configuration is useful for screens viewed in the TWC on a smaller form-factor device such as a mobile phone or tablet allowing you to preserve valuable screen real estate. In collapsible mode a selected node will be sent to any receiving control(s), the node name will be displayed in a header above the tag chooser, and the tag chooser will collapse and automatically close with each selection when *Auto close* is selected.

UIS Command Button

- An **image** is now supported on the UIS Command Button in Canvas Web mode when preparing a screen for the display in the Web client view.
- The UIS Command Button now supports **background blinking for unacknowledged alarms** in both the Canvas view and the Web client view.
- Fixed an issue with a **UIS Command Button in a Nested View** in the Web client view. Previously if a nested view contained a screen with a UIS command button, and the user invoked the UIS Command dialog box, the popup did not open on the main browser screen, but was confined within the nested view. This is now fixed and the UIS command popup opens outside the nested view on the main browser screen.
- Fixed a functional issue with the UIS Command Button in the Web client view. The UIS command button can optionally include a **default value** to be displayed in the command prompt popup. Previously, if a button included a configured default value, the button failed to include the default value when sending the UIS command to the facility.
- Fixed a **display issue** with the prompt dialog box for the UIS Command Button in the Web client view. Previously, styling errors caused the Send and Cancel buttons to display outside the prompt dialog box.

Value Indicator

- Fixed a **display issue** with the Value Indicator where the control failed to display an **"Invalid bounds"** label in both Canvas view and the Web client view when the **Hide invalid bounds** property was unchecked (the default behavior) and the bound **Source** configuration used a *Point Attribute* with a default bound Id of *Invalid*. The control will now correctly hide a value indicator's value bar, alarm ranges, and marker and display an "Invalid bounds" label if the bounds are not correctly configured when the **Hide invalid bounds** property is unchecked.

CygNet Reference Packages

- A **CygNet Reference Packages** implementation is now available for use with Canvas and the CygNet Thin Web Client v1.2. The screens, workflows, and sample data provided in the CygNet Reference Package represent the most current capabilities of Canvas and the CygNet TWC and is offered as an example of how you might implement Canvas and TWC to create a similar set of screens for your operators to visualize enterprise data in the Canvas client view or the browser-based CygNet Thin Web client view.

A **Reference_Packages.zip** is included with the CygNet Thin Web Client v1.2 upgrade files and contains all the files you need to get started.

Refer to the **CygNet Reference Packages, Installation Guide and Data Model** for more information.