CygNet Thin Web Client v1.4 Release Notes

Release Date: April 12, 2024

This document describes features and changes included in the CygNet Thin Web Client v1.4. The CygNet Thin Web Client v1.4 is compatible with CygNet v9.6 and later.

For instructions on updating your host, refer to the *CygNet v9.8 Upgrade Procedure* for more information.

Contents

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 v1.4 and Canvas in CygNet v9.6 and later.

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 v1.4

This section describes major features in CygNet Thin Web Client (TWC) v1.4.

TWC Features

The following enhancements have been made in TWC v1.4.

TWC User Interface

- The Thin Web Client **context menu** now allows the **editing of alarm threshold values and the alarm priority number** for a point, which will be written back to the CygNet host server. A warning will show if you do not have the appropriate security access level to edit points.

- The chart option in the Thin Web Client's **context menu** has been expanded to allow you to **add any point presented in the main web view to an ad hoc chart**. For any control that supports a context menu, an option is available to add a selected point to a new chart or a previously saved chart, which then opens in a separate browser tab. Saved charts are hard-coded with specific point tags and you can always add other points to a previously saved chart, as desired.

  Ad hoc charts are **interactive** in that you can change the date and time range displayed in the chart via a calendar tool or six preset shortcut buttons, enable or disable live data, and hide or show unreliable points. Each chart page includes a **grid** of point data, which reflects the point series selected in the chart. Any series can be deleted on demand, and the grid data can be exported to an Excel file. Saved charts are browser based, stored in the local storage space of the browser, meaning if you save a chart in Edge, it cannot be viewed in Chrome. All saved charts are also accessible from the main Thin Web Client page.

TWC Installer

- The TWC.Installer.Setup program has been modified to include **service descriptions** for the TWC.PublishingService.Server and the TWC.Service.Server so that descriptions appear in the Windows **Services** dialog box.

Canvas Changes

The following changes have been made to Canvas in support of Canvas in its Native view and TWC v1.4.

Canvas Backstage View

- Validation has been added to the **prevent users from entering an invalid date time format** in the Backstage view. Canvas will warn the user if an invalid Default date format is entered. If the field is left empty, Canvas will automatically default to the following date time format: MM/dd/yyyy hh:mm:ss.

Canvas Controls

All Controls (Canvas and TWC View)

- If an invalid **Date and time format** is configured for the point, the control will automatically use the format configured for the **Default date format** saved in the global settings file, which is configured in the Backstage view.

All Controls (TWC View)

- **Background color** with respect to the Canvas light theme now displays as expected in the web view. Previously when a screen background color source was set to "Auto", the screen displayed a light background (e.g., white background with black text) when the Canvas theme was set to either dark or light, which is the expected behavior. But this was not the case for a screen set with a dark theme (or any screen background color other than white), and the background color source was set to "Auto".

Alarm Grid

- Fixed an issue with the Alarm Grid where it was **sending multiple facilities** to any receiving control in the Canvas Native view. An Alarm Grid has the capability to send multiple facilities to another control by setting the "Facility Sender Mode" property to "All Facilities". On a screen containing both an Alarm Grid and a CygNet Grid, the Alarm Grid acts as a facility sender and the CygNet Grid is a facility receiver. In this case the Alarm Grid was sending all of its facilities to CygNet Grid causing redundant rows in the receiving CygNet Grid.

- Fixed an issue in the web view sending facility data from the Alarm Grid to a receiving control on the same screen when the **Facility sender mode** was set to *Double click* and the **Double click mode** was set to *Hyperlink*. Previously, the grid failed to send the facility and associated value.

- Fixed an issue with the Alarm Grid in the web view where the grid failed to publish correctly if the Alarm Grid was configured to **source its data by SiteService**.

CygNet Grid

- Fixed an issue in the **Canvas View** application where a screen that included a CygNet Grid with configured columns generated an **unexpected error**. The same screen and configuration worked as expected in the main Canvas application.

- Fixed an issue in the web view sending facility data from the CygNet Grid to a receiving control on the same screen when the **Facility sender mode** was set to *Double click* and the **Double click mode** was set to *Hyperlink*. Previously, the grid failed to send the facility and associated value.

Detail

- Fixed an issue with a Detail control in the web view so that the control now **passes the correct data** (auto color configuration, point state color, and relative facility information) to the control(s) on the **flipped object**.

Donut

- Fixed a **text sizing issue** with the Donut control in the web view. Previously when presenting multiple Nested Views that reference the same Donut screen or multiple Detail screens that flip to the same Donut object, the text size in the second and other Donut screens or in the flipped object was oversized and illegible.

- Fixed a programmatic **style issue** that corrupted the display of a Donut in the web view. Previously when presenting **multiple Nested Views** that reference the same Donut screen or **multiple Detail screens** that flipped to the same Donut object, the display and/or color in the screen or in the flipped object was corrupted.

Dynagraph

- Modified the **Dynagraph** control to temporarily **remove** the context menu options to **edit** the pumpoff configuration and fluid fill setpoint values for the associated facility. The CygNet dialog boxes required to edit these values and send updates to the facility are not available to the Canvas application. The edit options will be implemented in a future Canvas release. The Dynagraph control is not available in the Thin Web Client.

Linear Gauges

- Fixed a programmatic **style issue** that corrupted the display of a Linear Gauge in the web view. Previously when presenting **multiple Nested Views** that reference the same Linear Gauge screen or **multiple Detail screens** that flipped to the same Linear Gauge object, the display and/or color in the screen or in the flipped object was corrupted.

Navigation Button

- The text on a Navigation Button on a screen created in the Canvas dark mode is now visible when you **hover over the button** in the web view. Previously the text was hidden from view when the button's text color was set to self and white.

- Fixed a **color display issue** for the Navigation Button in the web view when data suppression is configured. Previously if a color property was configured to display a Point State and the Suppress data retrieval option was enabled, the button continued to display the Point State color, which was not the expected behavior.

Nested View

- Fixed an issue with a Nested View control in the web view so that the **control now passes the correct data** (e.g., relative facility information) to child controls on nested screens.

SetPoint Button

- The text on a SetPoint Button on a screen created in the Canvas dark mode is now visible when you **hover over the button** in the web view. Previously the text was hidden from view when the button's text color was set to self and white.

Tag Chooser

- Added an option to use **Table Description** as a hierarchy level for table-driven facility attributes on a facility-based Tag Chooser, which is supported by both Canvas and the TWC.

UIS Command Button

- The text on a UIS Command Button on a screen created in the Canvas dark mode is now visible when you **hover over the button** in the web view. Previously the text was hidden from view when the button's text color was set to self and white.

- Validation and warnings have been added in Canvas and the web view to **avoid empty values** when configuring and interacting with the UIS Command Button. The user will be notified about a missing parameter value in the prompt and when attempting to run the UIS command without entering a value for the command.

Value Indicator

- Fixed a programmatic **style issue** that corrupted the display of a Value Indicator in the web view. Previously when presenting **multiple Nested Views** that reference the same Value Indicator screen or **multiple Detail screens** that flipped to the same Value Indicator object, the display and/or color in the screen or in the flipped object was corrupted.

TWC Reference Packages

The following issues have been fixed in the Thin Web Client Reference Packages 1.6 release.

An updated CygNet Reference Packages implementation is now available for use with Canvas and the CygNet Thin Web Client v1.6. 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 Native view or the browser-based CygNet Thin Web client view.

A Reference_Packages.zip is included with the CygNet Thin Web Client v1.6 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.

A new **Reference_Packages.zip** has been posted to the CygNet Download Site (login required).