MobileHMI
Using the Applications Hub

APPLICATION NOTE

October 2015

Description: A guide to connect your mobile device to an Application Hub
General Requirement: Windows Phone 8, Android, iOS, or HTML5-enabled device.

Introduction

MobileHMI is the next generation HMI/SCADA mobile application for industrial, manufacturing and building automation. MobileHMI is an application developed to allow access to operational information from anywhere and at any time.

With the ability to launch GraphWorX64 displays, real-time and historical trends, navigate the Asset Catalog, monitor alarms and subscribe to push notifications for alarms, MobileHMI gives users control of enterprise scale operations from a wide variety of mobile devices. All these options are available from the Applications Hub ("AppHub"), which serves as the main client interface for MobileHMI. The configuration of the AppHub is performed through Workbench for Desktop (the MobileHMI provider).

The AppHub is the MobileHMI client application that gets delivered to your device. It provides a user-customizable navigation experience that is role-based through Security, so that different roles in the organization can have access to different information. The AppHub uses Smart Tiles to provide live data right in the hub for a quick overview of the top KPIs

Users will be able to download and install the AppHub from:

- Microsoft Store (Windows 8 / RT and Windows Phone) – native apps
- Apple Store – native app wrapping HTML5 (AnyGlass)
- Google Store – native app wrapping HTML5 (AnyGlass)

All versions of the AppHub are based on the same core framework:

- Framework runs on the client device for Windows 8 / RT and Windows Phone
- Framework runs on the AnyGlass server for HTML5, one instance per user

The AppHub works with the concept of Layouts. A Layout is a logical collection of navigation items which can have one or more Groups, where each Group is made of one or more Tiles. A Tile launches a content page, which can be for GraphWorX64, TrendWorX64, AlarmWorX64, or AssetWorX.

This application note will walk you through the AppHub for the MobileHMI provider on your device.

Installation

The first step to start using MobileHMI is to install the MobileHMI product on a server PC. For details about the installation procedure please refer to the product documentation located on the installation disk.

> **NOTE:** If you are just looking to demo MobileHMI on you mobile device you can skip the server installation and just install to your device, then connect to the demo MobileHMI.com server.

Device Installation

To install MobileHMI to your client device, go to the Microsoft Store (for Windows devices), Play Store (for Android devices) or App Store (for iOS devices) and search for "MobileHMI". Follow the standard instructions for your device on how to install an app. For information on how to install MobileHMI on your device, please refer to the MobileHMI – Getting Started app note.

Using the Application Hub

1. Open the MobileHMI App on your device. For the purposes of this application note we are going to use a Windows based device.
2. You will be directed to the Servers page, as shown in Figure 1. Here, you can choose what server to access your displays from. In this example, we can choose the default "mobilehmi.com" to Connect to the AppHub.

Figure 1 - Server Page in MobileHMI

3. The resulting AppHub interface is shown in Figure 2.
4. Once connected to the server, the user may pick one of available layouts. To access various layouts, click on the Smart Tiles

NOTE: If the user has only one layout available (or selected a default layout) this step will be skipped.

NOTE: Layouts that are published for MobileHMI are done on the Server hosting MobileHMI for GENESIS64. For information on how to configure these displays and how to access them from the server, please consult the MobileHMI – Getting Started app note.

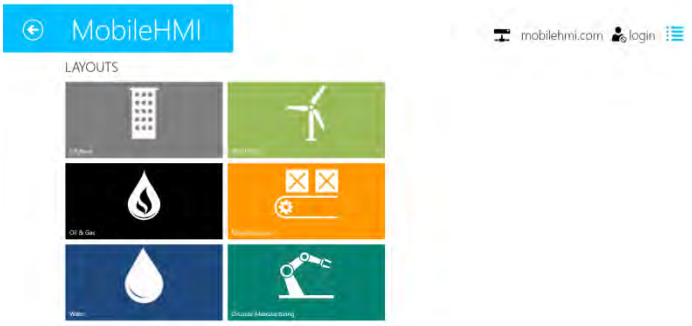

Figure 2 - MobileHMI.com interface

5. To return to the list of servers, click on the mobilehmi.com icon on the upper right hand corner: .
6. Users can login to access displays by clicking on the Login icon in the upper right hand corner: .
7. A history of the displays seen can be accessed by clicking on the history icon:

Changing Preferences

Preferences for the AppHub can be modified by going to Charms Bar (right hand side) → Settings → Preferences (in MobileHMI). Here, you can delete your history or cache, set a cache limit, and modify startup connection parameters, as seen in Figure 3:

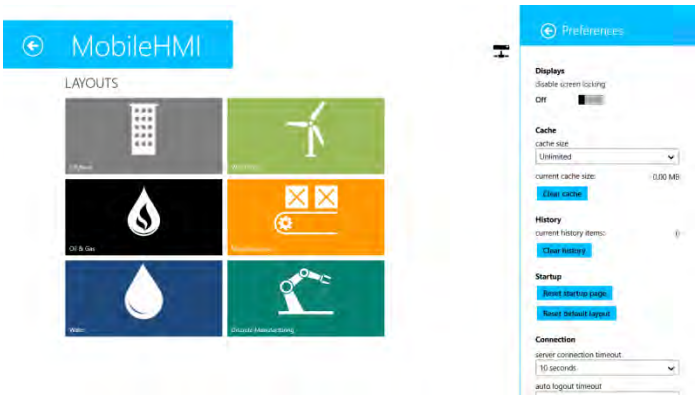

Figure 3 - Preferences for MobileHMI