CONFIGURATION & PROGRAMMING MANUAL

VARIA TOUCH PANELS

VARIA SL50	5.5” ULTRA-SLIM WALL MOUNT TOUCH PANEL
VARIA SL80	8” ULTRA-SLIM WALL MOUNT TOUCH PANEL
VARIA 80	8” TOUCH PANEL
VARIA 100	10.1” TOUCH PANEL
VARIA 100N	10.1” TOUCH PANEL NO-COMM
VARIA 150	15.6” TOUCH PANEL
VARIA 150N	15.6” TOUCH PANEL NO-COMM

AV FOR AN IT WORLD®

IMPORTANT SAFETY INSTRUCTIONS

ESD Warning

To avoid ESD (Electrostatic Discharge) damage to sensitive components, make sure you are properly grounded before touching any internal materials.

When working with any equipment manufactured with electronic devices, proper ESD grounding procedures must be followed to make sure people, products, and tools are as free of static charges as possible. Grounding straps, conductive smocks, and conductive work mats are specifically designed for this purpose. These items should not be manufactured locally, since they are generally composed of highly resistive conductive materials to safely drain static discharges, without increasing an electrocution risk in the event of an accident.

Anyone performing field maintenance should use an appropriate ESD field service kit complete with at least a dissipative work mat with a ground cord and a UL listed adjustable wrist strap with another ground cord.

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE ONLY with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. DO NOT overload wall outlets or extension cords beyond their rated capacity as this can cause electric shock or fire.
19. The unit is to be connected only to PoE networks without routing to the outside plant.

WATCH FOR THESE SYMBOLS:

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

ESD Warning: The icon to the left indicates text regarding potential danger associated with the discharge of static electricity from an outside source (such as human hands) into an integrated circuit, often resulting in damage to the circuit.

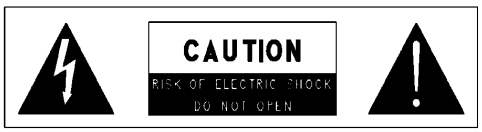
WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

WARNING: No naked flame sources – such as lighted candles – should be placed on the product.

WARNING: Equipment shall be connected to a MAINS socket outlet with a protective earthing connection.

CAUTION: To be installed by instructed, or skilled, persons only.

WARNING: This product is intended to be operated ONLY from the voltages listed on the back panel or the recommended, or included power supply of the product. Operation from other voltages other than those indicated may cause irreversible damage to the product and void the products warranty. The use of AC Plug Adapters is cautioned because it can allow the product to be plugged into voltages in which the product was not designed to operate. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer. If the product is equipped with a detachable power cord, use only the type provided, or specified, by the manufacturer or your local distributor.



WARNING: Do Not Open! Risk of Electrical Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

Place the equipment near a main power supply outlet and make sure that you can easily access the power breaker switch.

BATTERY INFORMATION:

This product contains batteries that are covered under the 2006/66/EC European Directive, which cannot be disposed of with normal household waste. Please follow local regulations.

THIS PRODUCT CONTAINS A LITHIUM PACK OR COIN/BUTTON CELL BATTERY. IF MISUSED OR ABUSED THIS CAN RESULT IN:

- **Smoke or gas hazard**
- **Heat hazard**
- **Fire hazard**
- **Explosion hazard**

⚠ **WARNING:** Do not place batteries in mouth or ingest. Chemical burn hazard. Keep new and used batteries out of reach of children and pets. If swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

<u>If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.</u>

WARNING: If battery compartment does not close securely, stop using the product and keep it away from children and pets

WARNING: Do not handle leaking or damaged lithium batteries.

WARNING: Risk of leakage. Only use the specified type of batteries. Never mix new and used batteries.
Observe correct polarity. Remove batteries from products that are not in use for extended periods of time. Store batteries in a dry place.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

Please dispose of any used batteries properly, following any local regulations. Do not incinerate.

WARNING: Do not recharge non-rechargeable batteries.

WARNING: **40 °C / 104 °F** is maximum ambient operating temperature. Avoid exposure to extreme heat or cold.

LASER SAFETY:

This product complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Date of manufacture: the date code shown on the product label represents the manufacturing date of this laser product.

CAUTION: Invisible laser radiation when open. Avoid exposure to beam. Class 1 laser product. This system must be opened only by qualified technicians to prevent accidents caused by the laser beam.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

FCC AND CANADA EMC COMPLIANCE INFORMATION:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 (B)/NMB-3(B)

FCC SDOC SUPPLIER'S DECLARATION OF CONFORMITY:

HARMAN Professional, Inc. hereby declares that this equipment is in compliance with the FCC part 15 Subpart B.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in

accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Approved under the verification provision of FCC Part 15 as a Class B Digital Device.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

WIRELESS TRANSMITTER COMPLIANCE INFORMATION:

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Le terme «IC:» avant le numéro de certification radio signifie seulement que les specifications techniques d'Industrie Canada ont été respectées.

This device complies with part 15 of the FCC Rules and the applicable Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 200 mm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme à FCC et IC l'exposition aux rayonnements limites fixées pour un environnement non contrôlé. Cet appareil doit être installé et utilize avec une distance minimale de 200 mm entre le radiateur et votre corps. Cet transmetteur ne doit pas être co-situé ou operant en liaison avec toute autre antenne ou transmetteur.

此标识适用于在中华人民共和国销售的电子信息产品. 标识中间的数字为环保实用期限的年数.

This logo applies to electronic information products sold in the People's Republic of China. The number in the middle of the logo is the number of years of environmental utility.

WEEE NOTICE:

The WEEE Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), which entered into force as European law on 14/02/2014, resulted in a major change in the treatment of electrical equipment at end-of-life.

The purpose of this Directive is, as a first priority, the prevention of WEEE, and in addition, to promote the reuse, recycling and other forms of recovery of such wastes so as to reduce disposal. The WEEE logo on the product or on its box indicating collection for electrical and electronic equipment consists of the crossed-out wheeled bin, as shown below.

This product must not be disposed of or dumped with your other household waste. You are liable of dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will allow us to help conserving natural resources. Moreover, proper recycling of the electronic and electrical waste equipment will ensure safety of human health and environment. For more information about electronica and electrical waste equipment disposal, recovery, and collection points, please contact your local city center, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.

RoHS Compliance:

This product is in compliance with Directive 2011/65/EU and (EU) 2015/863 of the European Parliament and of the Council of 31/03/2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH:

REACH (Regulation No 1907/2006) addresses the production and use of chemical substances and their potential impacts on human health and the environment. Article 33 (1) of REACH Regulation requires suppliers to inform the recipients if an article contains more than 0.1% (per weight per article) of any substance(s) on the Substances of Very High Concern (SVHC) Candidate List (‘REACH candidate list’).

This product contains the substance ‘‘lead’’ (CAS-No. 7439-92-1) in a concentration of more than 0.1% per weight.

At the time of release of this product, except for the lead substance, no other substances of REACH candidate list are contained in a concentration of more than 0.1% per weight in this product.

Note: on June 27, 2018, lead was added to the REACH candidate list. The inclusion of lead in the REACH candidate list does not mean that lead-containing materials pose an immediate risk or results in a restriction of permissibility of its use.

Manufacturer Information:

Manufacturer: HARMAN Professional, Inc.

Address: 8500 Balboa Blvd. Northridge, CA 91329 USA

EU Regulatory Contact:

HARMAN Professional, Inc.

Denmark ApS

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AMX WARRANTY AND RETURN POLICY

The AMX Warranty and Return Policy and related documents can be viewed/downloaded at www.amx.com.

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VARIA Touch Panels Configuration & Programming

Overview

The AMX Varia touch panels redefine control with personas that fit any application. Any AMX Varia touch panel can be configured as any persona:

- **AMX G5 Control** that utilizes AMX G5 programming tools like TPDesign5 & Netlinx Studio
- **AMX Book Scheduling** that directly connects directly to popular scheduling software
- **Zoom Rooms Controller** to manage Zoom Rooms environments
- **Web Kiosk** that can display HTML5 & web content on a full-screen borderless browser
- **CloudworX Control** (future availability)

The VARIA touch panels covered in this document are listed below**:**

VARIA TOUCH PANELS		
AMX-UTP0501	VARIA SL50	5.5” ULTRA-SLIM WALL MOUNT TOUCH PANEL
AMX-UTP0801	VARIA SL80	8” ULTRA-SLIM WALL MOUNT TOUCH PANEL
AMX-UTP0811	VARIA 80	8” TOUCH PANEL
AMX-UTP1011	VARIA 100	10.1” TOUCH PANEL
AMX-UTP1011N	VARIA 100N	10.1” TOUCH PANEL NO-COMM
AMX-UTP1511	VARIA 150	15.6” TOUCH PANEL
AMX-UTP1511N	VARIA 150N	15.6” TOUCH PANEL NO-COMM

NO-COMM Touch Panels are used in highly secure environments where device peripherals are not allowed. NO-COMM panels omit the camera, microphone, and NFC reader. NO-COMM panels include speakers, ambient light sensor, and proximity sensor.

Additional Documentation

- For instructions on using NetLinx Studio, refer to NetLinx Studio online help, or the NetLinx Studio v4 Instruction Manual.
- For instructions on using TPDesign5, refer to TPDesign5 online help, or the TPDesign5 Instruction Manual.
- For installation instructions for Varia panels, refer to the Varia Touch Panels Installation and Hardware Reference Guide.

Out of the Box Setup Wizard

Overview

AMX Varia touch panels include a step-by-step wizard to walk a user through basic setup requirements. This includes language selection, date & time, network, and touch panel persona.

The Setup Wizard

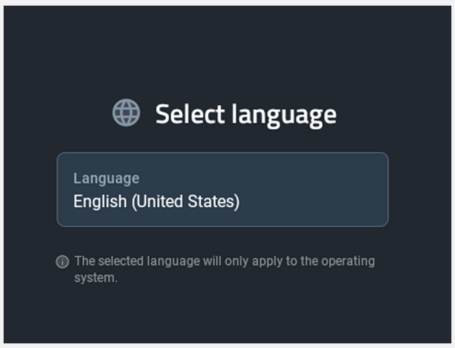
When a panel is first turned on (either out of the box, or after a factory reset operation), the setup wizard appears. Follow the steps to select your preferences. After making selections on each page, press [Continue] on the bottom-right of the screen to go to the next page. To go back, press [Back] on the bottom-left of the screen.

Language

Use the dropdown to select your language.

NOTE: The selected language will only apply to the operating system.

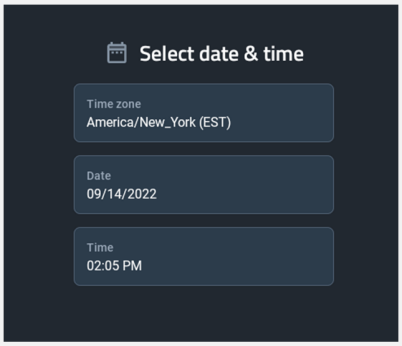
Additional language selections/decisions may be required based on the selected persona.



Date & Time

Use the dropdown to select your time zone.

Then, if required, adjust your date & time by using the dropdowns.

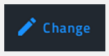


Network

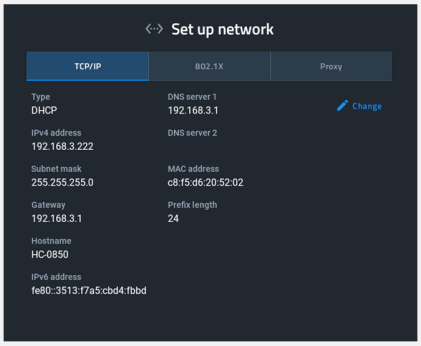
Select your network configuration

The current configuration will be shown. Default is DHCP with 802.1x disabled and no proxy.

A blue Change button is available to modify settings as needed.



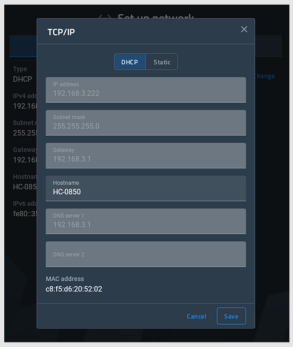
Make sure to press {Save] after making changes, or your newly entered network settings will not be saved.



DHCP (preferred)

Network DHCP server will automatically assign IP address, subnet mask, default gateway, and DNS server info.

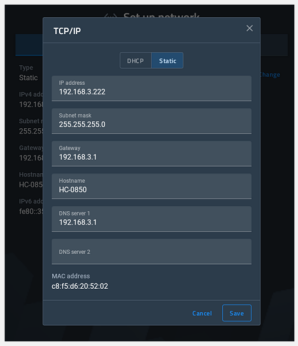
In this mode, IP fields are read-only. Hostname is available to change as needed.



Static IP

IP address, subnet mask, default gateway, and DNS server info must be entered manually. Make sure to press [Save] after entering the information. Press [Cancel] to leave without saving any edits.

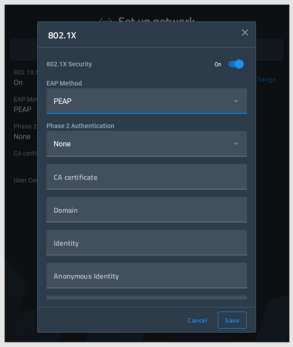
NOTE: It is not good networking practice to use the pre-filled DHCP address as a permanent static IP address. AMX prefers the use of DHCP MAC reservations vs. static IP addressing.



802.1X

If 802.1X is available/required, turn it [ON], select your EAP method, and enter the required info for that method (eg. certificate, domain, identity, password, etc.).

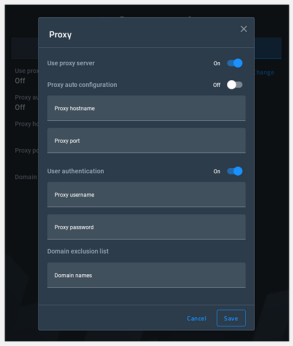
For further assistance and detail on whether your network supports or requires 802.1X, please contact your or your client's IT department.



Proxy

If a proxy is available/required, turn it [ON] and enter the appropriate configuration information.

For further assistance and detail on whether your network supports or requires 802.1X, please contact your or your client's IT department.



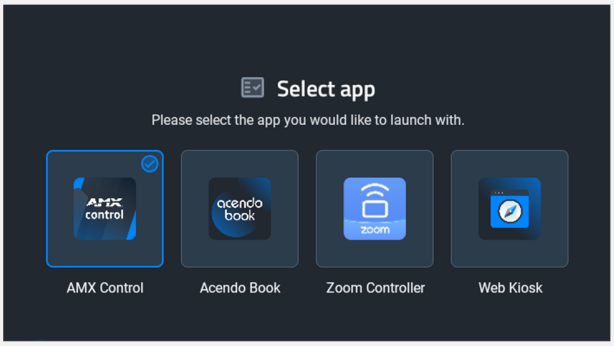
Persona (app) Selection

Select the panel's persona, which is the primary app that will be used by the panel. Each subsequent reboot will launch only this persona.

Each persona is described in detail later in this manual.

Once selected, press [Continue].

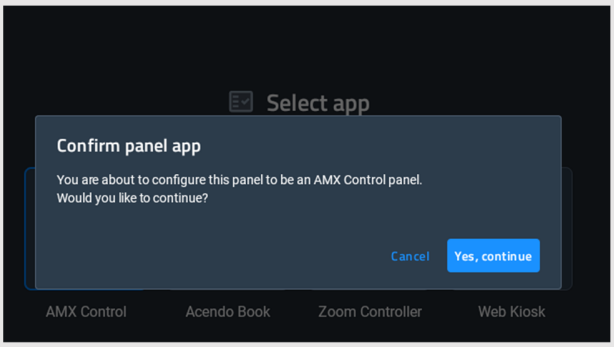
NOTE: The panel persona may be changed at any time in Advanced Settings.



Confirm Panel App

Your selection will be confirmed in a pop-up. Press [Yes, continue] to complete the selection or [Cancel] to go back and select a different persona.

NOTE: Once confirmed, the panel may take up to one (1) minute to initially configure the persona.



Wizard - AMX Control

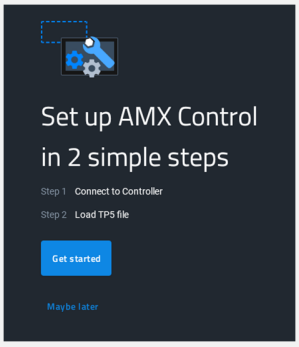
Overview

The AMX Control persona utilizes familiar G5 touch panel technology & features, used with Netlinx control systems. The touch panel GUI (graphical user interface) is programmed with TPDesign5 and is compatible with .TP5 files.

2 Simple Steps

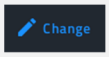
When the AMX Control persona is selected & configured, the wizard continues to help guide through the setup of Netlinx controller and load the TPDesign5 (TP5) UI file.

Select [Get Started] to continue, or [Maybe Later] to exit the wizard.



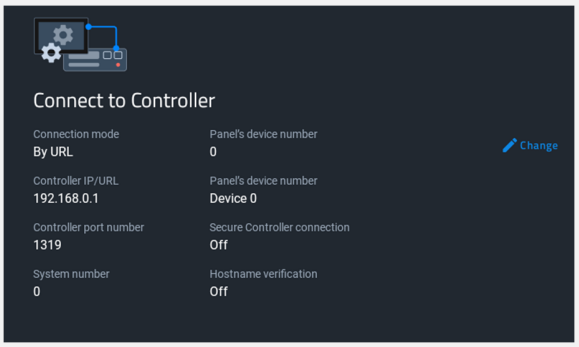
Netlinx Setup

Connect to your Netlinx controller. Start by pressing the blue [Change] button on the right.



Select one of the three (3) available connection methods.

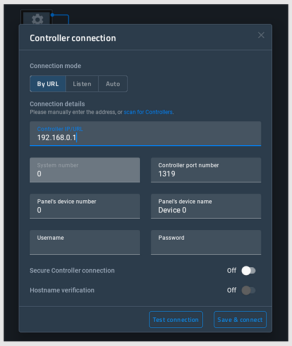
Each is described in detail below.



By URL

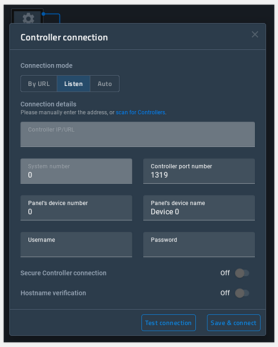
Enter the Controller's IP/URL, port number (if not using default 1319), and username/password (if used). The System Number field is read-only; the panel obtains this information from the controller.

Assign your touch panel a Device ID and a Device Name for your panel.



Listen

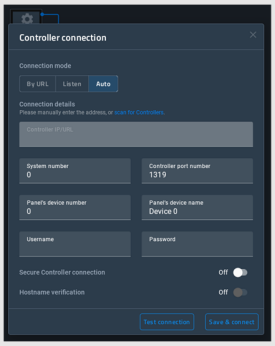
Add the panel address into the URL List in NetLinx Studio and set the connection mode to Listen. This mode allows the panel to “listen” for the Controller’s communication signals. The System Number and Controller IP/URL fields are read-only.



Auto

Enter the System Number and a username/password (if applicable).

Use this mode when both the panel & NetLinx Controller are on the same Subnet. The Controller IP/URL field is read-only.



Load TP5 File

Choose one of the three (3) available options to load a .TP5 file to the panel.

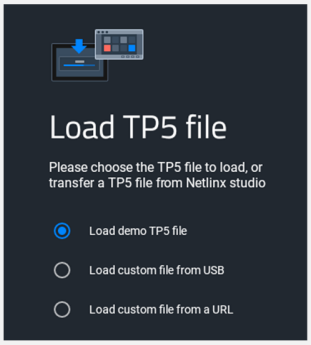
Demo TP5 file will load a pre-loaded & pre-built panel file

Load from USB will allow a file to be loaded via a USB thumb drive.

Load from URL will allow the user to enter a URL from which the .TP5 file will be downloaded.

Alternatively, Cloudworx Manager Desktop software may be used to load a .TP5 file to one or more touch panels.

If you don’t wish to load a .TP5 file right now, the final option [Maybe Later] may be selected at the bottom of the screen



Wizard - AMX Book

Overview

AMX Book offers an out-of-the box room scheduling solution, connects directly to popular scheduling platforms and supports the latest authentication protocols like Microsoft Modern Authentication.

Setup

Complete setup instructions can be found later in this manual.

Wizard - Zoom Rooms Controller

Overview

The built-in Zooms Room Controller persona can be used to control & manage Zoom Rooms environments.

Setup

Setup for ZRC environments is completed within the ZRC app. More information on Zoom Rooms can be found here:

https://explore.zoom.us/en/products/zoom-rooms/

Wizard - Web Kiosk

Overview

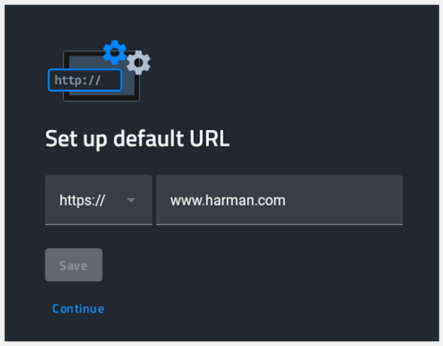
A full-screen borderless browser for HTML5, JavaScript, & web can be selected as a persona to turn your panel into a standards-based kiosk designed around web content.

Setup

Use the dropdown to select **https://** (preferred) or **http://**. Be careful not to repeat this protocol in the URL field.

Enter the URL to be displayed in the field.

Press [Save], and then [Continue]. Your web content will load immediately and will also load on any subsequent panel reboot.



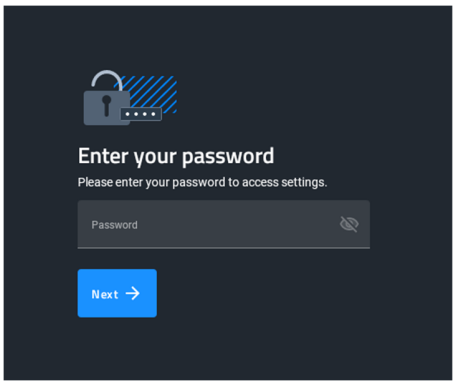
Panel Settings Menu

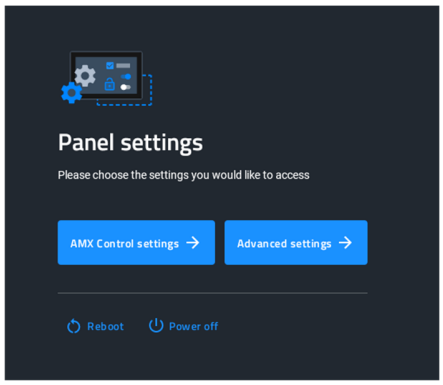
Overview

Panel Settings contain configuration info for the current persona & advanced settings. Persona settings are available only for the currently-active persona.

Accessing the Settings Menu

To access the Panel Settings menu, briefly press & release the Settings Button. The Settings Button is the pin-hole button on the top-right of the panel bezel, next to the rectangular Function button. The default PIN to access Panel Settings is 1988.

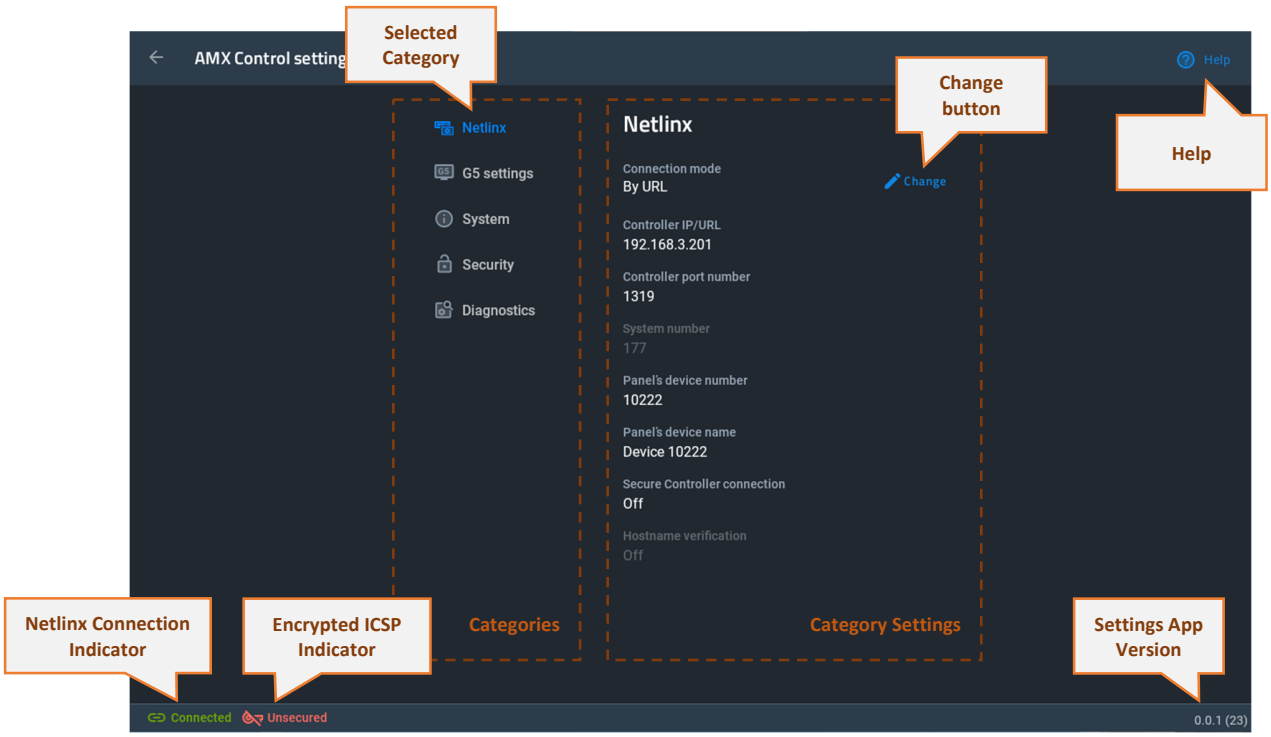


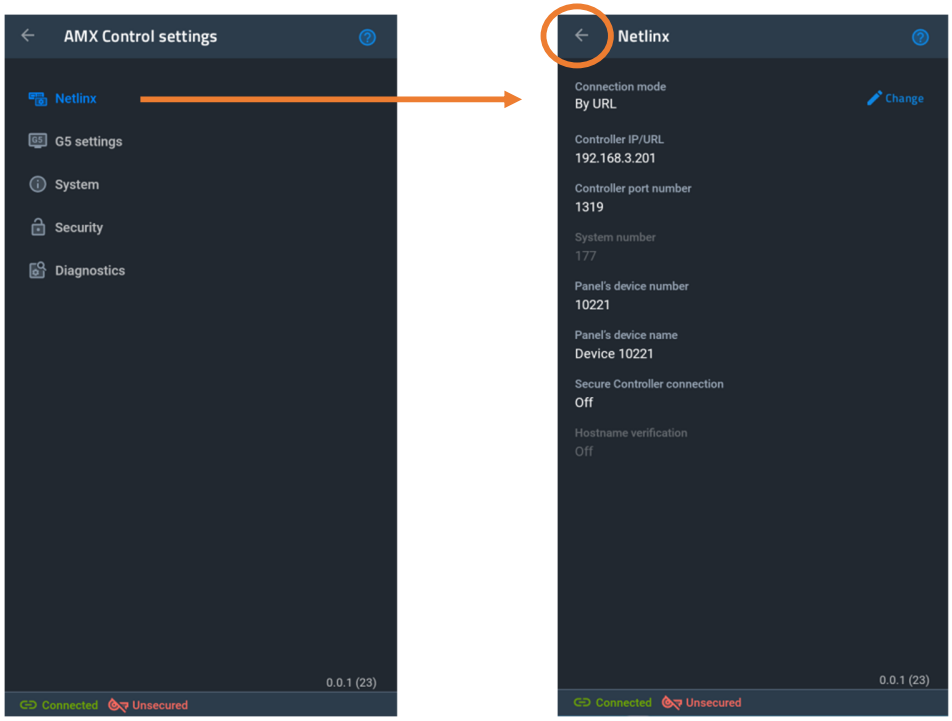


NOTE: Do not confuse the Settings button (pin-hole button) with any of the microphone or sensor holes. The Settings button is the **larger hole located closest to the Function Button**. Irreparable damage may occur if a foreign object is pushed down the microphone hole or into one of the sensors.

Using the Settings Menu

When opened, the Settings menu appears in the center of the panel display. Please note that many of the pages in the menu may be longer than they initially appear. To reach additional functions on a given page, the page itself may be scrolled up & down to reveal those functions.





Please note on the 5.5" panel, the Categories Menu is shown on the full screen and then flips to each Categories' settings page. Press the ← arrow on the top-left of the page to go back to the Categories Menu.

Settings Menu - Page Categories

Settings menu (FIG. 6 & FIG. 7) provides access to all of the Settings pages for G5 panels. Settings pages are separated into five categories: INFO, DEVICE, CONNECTIONS, ACCOUNTS, and SYSTEM. The menu options available via the Settings window are summarized below:

AMX Control Settings Menu		
PAGE NAME	DESCRIPTION	PAGE #
NETLINX		
Connection Mode	Connection to the Netlinx controller by either **URL** (IP or URL), **Auto** (System number), or **Listen** (Netlinx URL List).	page 24
Controller IP/URL	Sets the UP/URL of the Netlinx controller. Note: Available in URL Mode only; disabled when Auto or Listen Mode is selected.	
Controller Port Number	Enter the IP port number used with the Netlinx controller. Default: 1319	
System Number	Enter the Netlinx system number. Default: 0 (zero). Note: Available in Auto Mode Only; disabled when URL or Listen Mode is selected.	
Panel's Device Number	Enter the touch panel device number.	
Panels' Device Name	Enter the touch panel device's name.	
Secure Controller Connection	Set the secure connection to the Netlinx controller Note: the IP port used for secure ICSP connections is 1320.	
Hostname Verification	Set the hostname verification of the NetLinx controller, via the controller's device certificate. Note: This option is only available if the Secure Connection option is enabled.	
G5 SETTINGS		
TP5 File	View TP5 UI file information or load a new one.	
Sound	Set a sound to play on button hit, button miss, and NFC notification	
Inactivity Page / Page Tracking	Set Inactivity Page Flip behavior and Set Page Tracking info.	
User Password Protection	Set additional user protected passwords.	
SYSTEMS		
AMX Control Settings Management	Allows management of the settings in the AMX Control persona. **Reset** AMX Control settings **Load** settings config file from USB **Save** current settings to USB.	
Date & Time	Sync date & time either with the system OS or with the Netlinx controller. Note: System date & time can be set in the System OS Settings.	

AMX Book Settings Menu		
PAGE NAME	DESCRIPTION	PAGE #
CALENDAR		
Microsoft Exchange		page 24
Microsoft O365		
MEETING TIME		
TBD		
GROUP		

TBD

ROOM
TBD
SECURITY
TBD

Web Kiosk Settings Menu		
PAGE NAME	DESCRIPTION	PAGE #
WEB KIOSK		
Default URL		page 24
JavaScript		
Force Dark Mode		
Licenses		

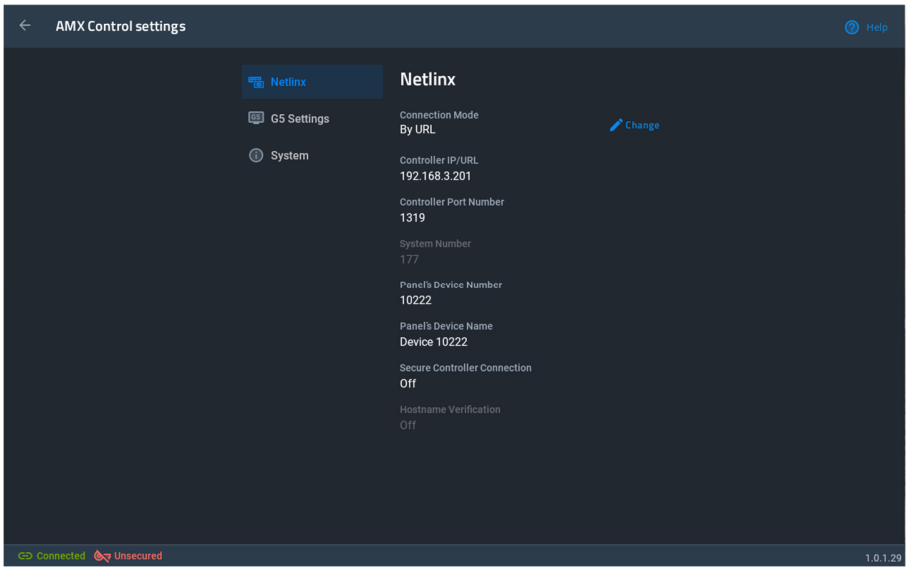
AMX Control

Overview

The Overview page presents a summary of the options available in an AMX NetLinx control system.

NetLinx

The NetLinx page controls the method of connecting to a NetLinx Controller.



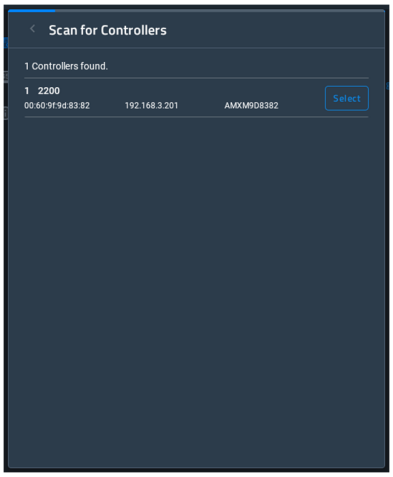
Netlinx	
Scan for Controllers	Press to scan for NetLinx controllers on the network, via the Controller Connection window. See Scanning for Controllers on page 48 for details.
Mode	Cycles between the connection modes: URL, Listen, and Auto. • **URL** - Enter the IP/URL, Controller Port Number, and username/password (if used) on the Controller. The System Number field is read-only - the panel obtains this information from the Controller. • **Listen** - Add the panel address into the URL List in NetLinx Studio and set the connection mode to Listen. This mode allows the panel to "listen" for the Controller's communication signals. The System Number and Controller IP/URL fields are read-only. • **Auto** - Enter the System Number and a username/password (if applicable). Use this mode when both the panel and the NetLinx Controller are on the same Subnet. The Controller IP/URL field is read-only.
System Number	Allows entry of a system number. Default value is 0 (zero). Note: Available in Auto Mode Only - disabled when URL or Listen is selected.
Controller IP/URL	Sets the Controller IP or URL of the NetLinx Controller. Note: Available in URL Only - disabled when Listen or Auto is selected.
Controller/Port Number	Allows entry of the port number used with the NetLinx Controller. Default = 1319.
Username	If the target Controller has been previously secured, enter the alpha-numeric string (into each field) assigned to a preconfigured user profile on the Controller. This profile should have the predefined level of access/configuration rights.
Password	If the target Controller has been previously secured, enter the alpha-numeric string (into each field) assigned to a preconfigured user profile on the Controller. This profile should have the predefined level of access/configuration rights.
Device Number	Displays the panel's device number and allows entry of a new one.

Netlinx	
Device Name	Displays the panel's device name and allows entry of a new one.
Scan for Controller Connection	Press to enable and configure a connection a secured NetLinx Controller, via options in the NetLinx window (see page 49). Note: The secure connection is a TLS connection to a NetLinx Controller on port 1320.
Hostname Verification	Press to enable hostname verification of the NetLinx Controller via the Controller's device certificate (see page 50). Note: This option is only available if the Secure Controller Connection option is enabled.
Connection Status	Displays the panel's connection status to the Controller

Scanning for Controllers

Use the Scan For Controllers feature to quickly and easily identify all of the available NetLinx Controllers on the network. The site survey on this page passively listens to network traffic and presents all the compatible Controllers for easy selection. Selecting the desired Controller automatically updates the NetLinx Controller section and establishes a connection.

1. In the NetLinx page, press **Scan For Controllers** to begin listening for NetLinx controllers and open the Controller Connection window (FIG. 64):Select the NetLinx Controller for this panel.

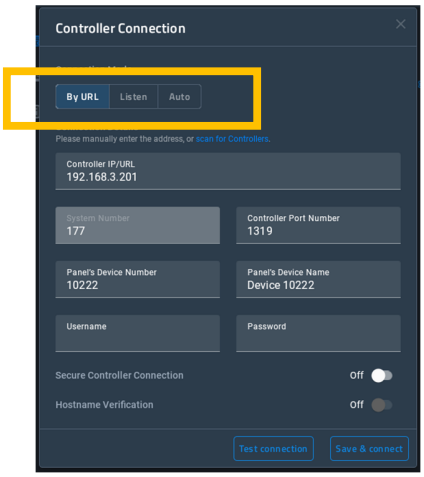


2. The NetLinx page will automatically display the connection information on the selected Controller

Changing the Controller Connection Mode

To select the Controller Connection mode (URL, Listen, or Auto):

1. In the NetLinx page, press **Mode** to open NetLinx Options window:



2. Select the desired option from the **Mode** menu - URL (default setting), Listen or Auto.
3. When finished, press **OK** to return to the NetLinx page.

Changing the Controller IP/URL

To change the IP address or URL for the chosen Controller:

1. In the NetLinx page, press **Controller IP/URL** to open the NetLinx Options window and on-screen keyboard.
2. Enter the IP address or the URL.
3. Press the double-down arrow key at the bottom right of the on-screen keyboard to close the keyboard.
4. The new IP address/URL is now displayed in the Controller IP/URL field.
5. Press **OK** to save the changes and return to the NetLinx page.:

Changing the Controller Port Number

To change the Controller Port Number from its default:

6. 1. In the NetLinx page, press **Controller Port Number** to open the NetLinx Options window and on-screen keyboard.
7. Enter the new Controller Port Number.
8. Press the double-down arrow key at the bottom right of the on-screen keyboard to close the keyboard.
9. The new Port Number is now displayed in the Controller Port Number field.
10. Press **OK** to save the changes and return to the NetLinx page.

Changing the Controller Username

1. In the NetLinx page, press the Username field to open the NetLinx Options window and on-screen keyboard.
2. Enter the new username.
3. Press the double-down arrow key at the bottom right of the on-screen keyboard to close the keyboard.
4. The new Username is now displayed in the Username field.
5. Press **OK** to save the changes and return to the NetLinx page

Changing the Controller Password

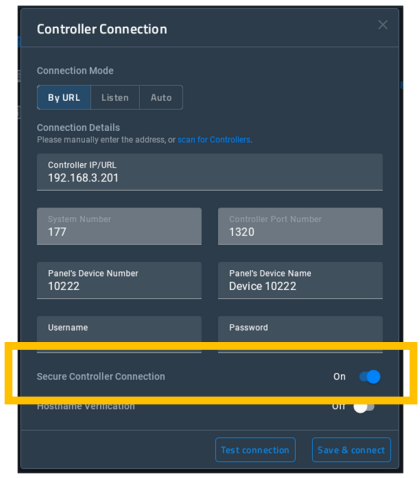
1. In the NetLinx page, press **Password** to open the NetLinx Options window and on-screen keyboard.
2. Enter the new password.
3. Press the double-down arrow key at the bottom right of the on-screen keyboard to close the keyboard.
4. The new Password is now displayed in the Password field.
5. Press **OK** to close the NetLinx window and return to the NetLinx

Changing the Device Number and Device Name

1. In the NetLinx page, press the Device Number field to open the NetLinx Options window and on-screen keypad.
2. Enter a new Device Number.
3. Press **Next**, to select Device Name in the NetLinx page and open the n-screen keyboard.
4. Enter a new Device Name.
5. Press **Done** to close the keypad and keyboard.
6. The new Device Number and Device Name are now displayed in the Device Number and Device Name fields.
7. Press **OK** to save changes and close the NetLinx window and return to the NetLinx page.

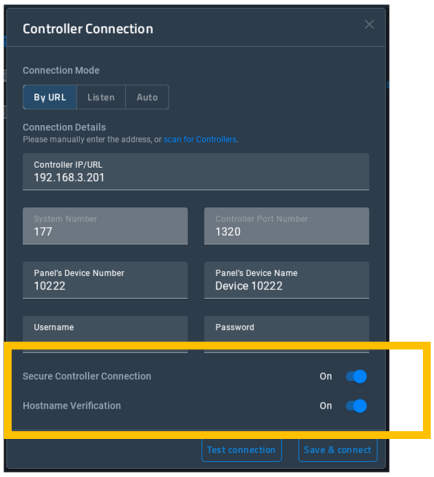
Enabling a Secure Controller Connection

1. In the NetLinx page, press the Secure Controller Connection field to open the NetLinx Options window.
2. Scroll to the bottom of the options list and toggle the Secure Controller Connection option ON:



Enabling Hostname Verification

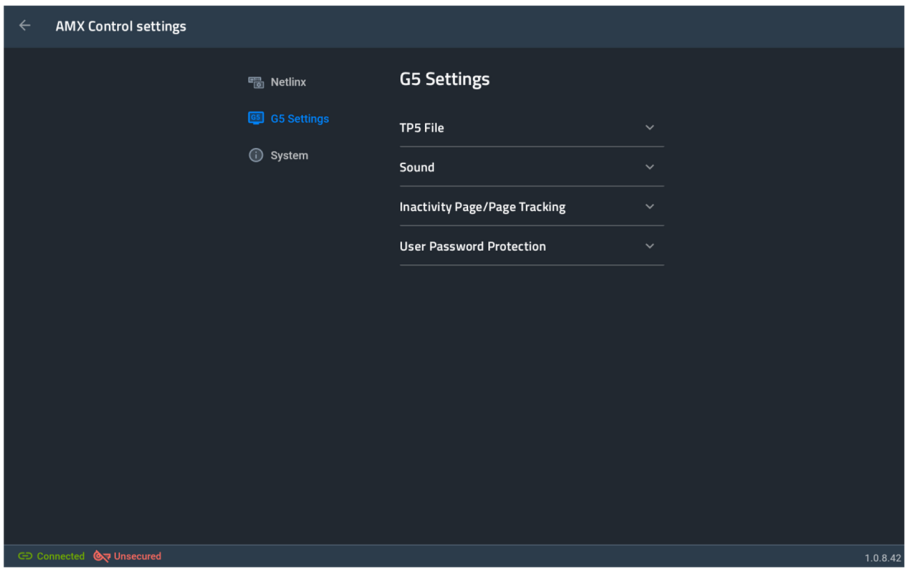
1. In the NetLinx page, press the Hostname Verification field to open the NetLinx Options window.
2. Scroll to the bottom of the options list and toggle the Hostname Verification option **ON** (FIG. 67):



Note that this option is available only if the Secure Controller Connection option is ON.

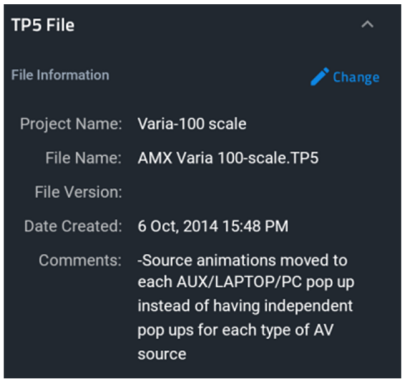
G5 Settings

The G5 Settings contains specific settings related to the G5 experience and to the TP5 project file loaded.



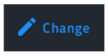
G5 Settings Options

This tab contains information related to your TP5 project file, and also gives the option to change the TP5 file loaded.

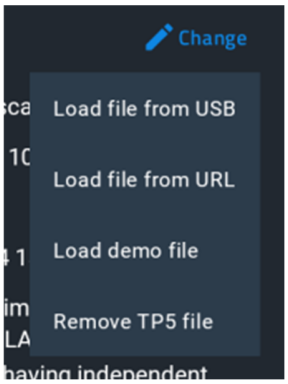


To change the TP5 project file, press [Change].

TP5 File



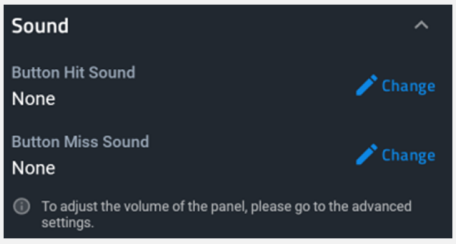
There are options to load from USB, URL, demo file, or remove the current TP5 project file



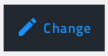
G5 Settings Options

Sound

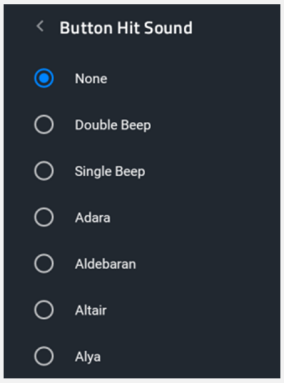
This tab contains sound settings for your touch panel. Dedicated sounds for *Button Hit* & *Button Miss* can be applied here.



To change either of these sounds, or to select no sound, press its respective [Change] button.

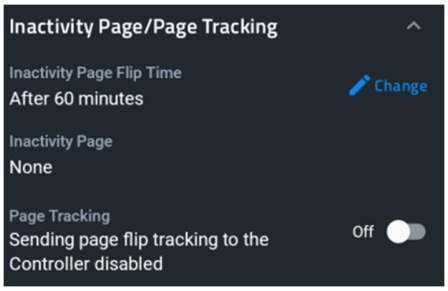


Scroll through and select a new sound. The options for *None* is at the very top.

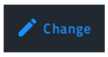


Inactivity Page / Page Tracking

This contains options to set up an Inactivity page Flip Time, which is a page flip made inside a TP5 project file after a specified period of inactivity on the panel (ie. no touches), and to enable or disable Page Tracking.

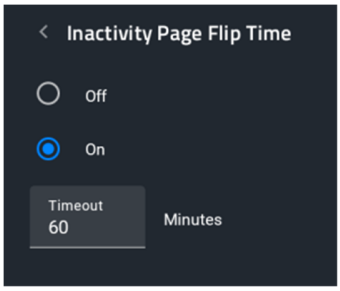


To set up, press [Change].



Select On or Off. If On, select the desired amount of time.

G5 Settings Options

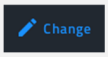


Inactivity Page is read-only, and dictated by the TP5 project file. See TPDesign5 for more information.

Page Tracking , if enabled, will send page flip tracking messages to the Netlinx controller.

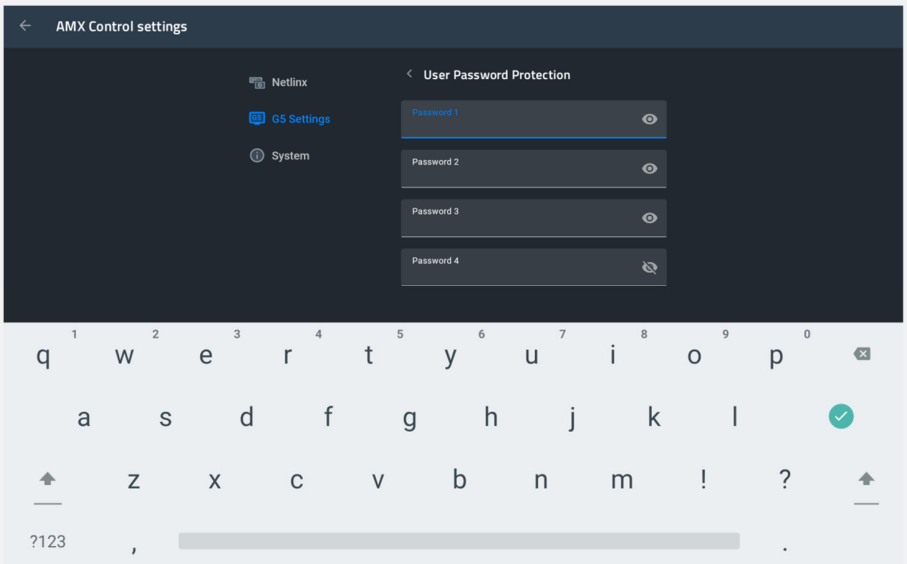
This provides the option of assigning passwords to the secured Settings pages. Users have the the ability to assign alphanumeric values to particular password sets.

To assign, change, or delete a password, press [Change].



User Password Protection

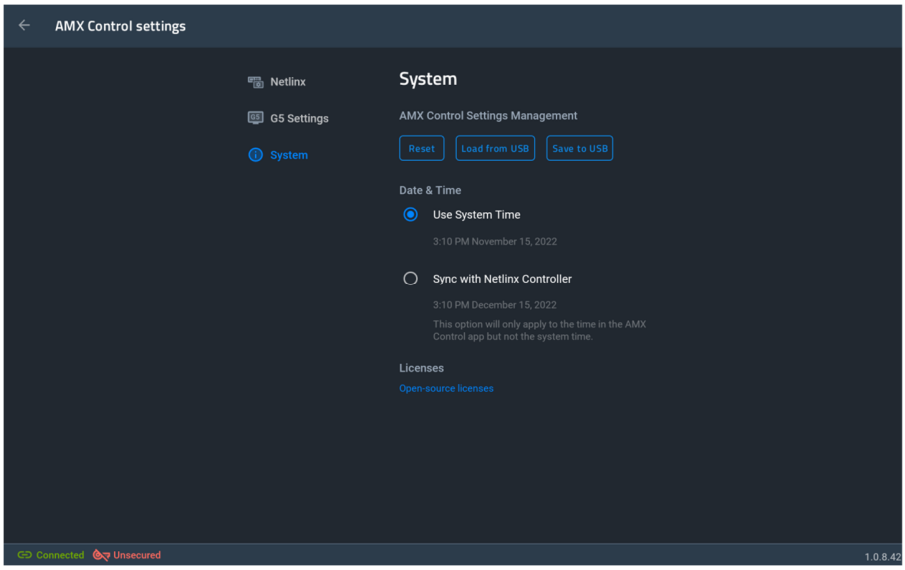
You may enter up to four (4) passwords.

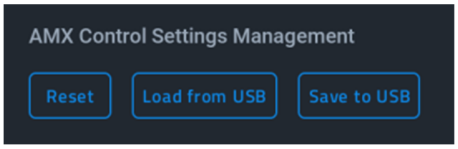
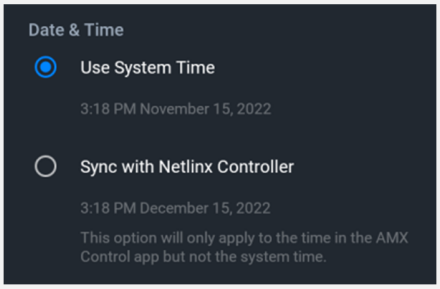


Note: This function does not overwrite the default settings password (1988).

System

The System settings contains options for the panel configuration, date & time, and date & time.

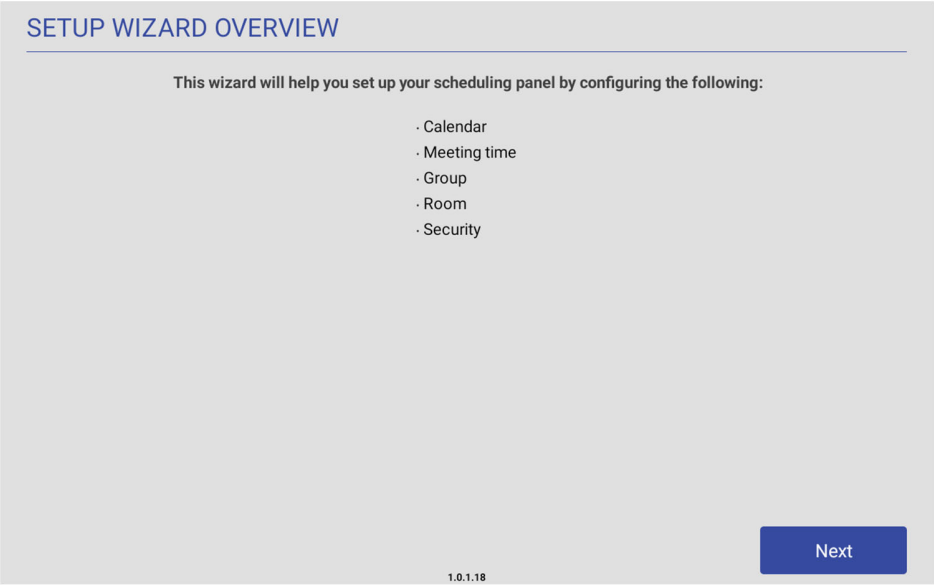


System	
AMX Control Settings Management	This allows management of the settings in the AMX G5 Control persona:  **Reset** will revert all AMX Control settings to their default values. **Load from USB** will allow a panel config file to be loaded via connected storage device. **Save to USB** saves the current panel configuration to USB.
Date & Time	Allows syncing with either the touch panel system date & time or the Netlinx controller date & time.  Note: this will only apply to the AMX Control persona.
Licenses	This displays all the open sources licenses being utilized, if applicable.

AMX Book

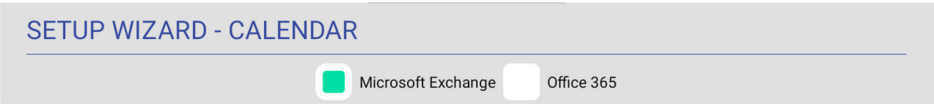
Overview

The Overview page presents a summary of the steps that entail the Scheduling Panel Setup Wizard. Press [Next] to start.



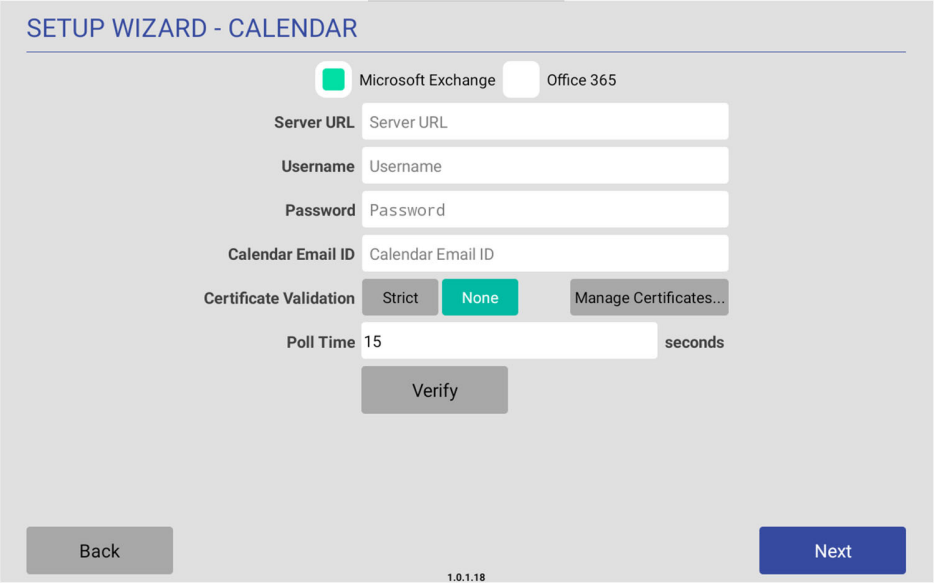
Calendar

Use the options in the CALENDAR page to configure the scheduling panel's connection to the scheduling system.



Microsoft Exchange

Microsoft

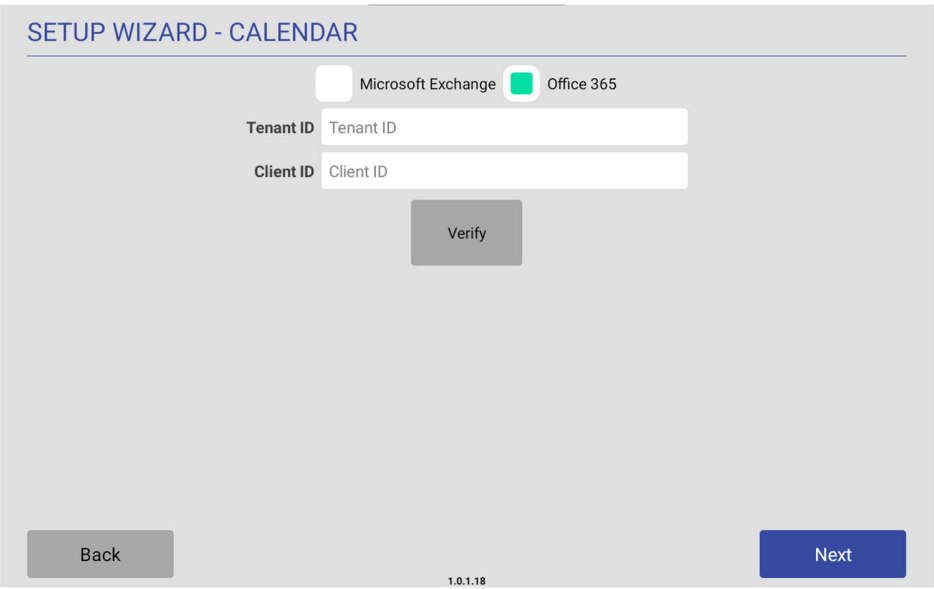


Microsoft Exchange Calendar Configuration Settings

Server URL	Enter the full URL for the scheduling server. Example syntax: https://<EXCHANGE_SERVER_HOSTNAME>/EWS/Exchange.asmx
Username	Enter the Username (including domain) required to login to the scheduling server (as required). Example: "JaneDoe@acme.onmicrosoft.com".
Password	Enter the Password required to login to the scheduling server (as required).
Calendar Email ID	Enter the Email ID (including domain) used by the scheduling service. Example: "ConfRoom1@acme.onmicrosoft.com"
Certificate Validation	• Select **Strict** to include hostname validation and apply certain certificate requirements - see *SSL Validation Schemes* (below). • Select **None** to disable validation schemes - see *SSL Validation Schemes* (below). • Select **Manage Certificates** to open the *Security* (Advanced Settings) page (see FIG. 100 on page 57), which provides access to *Credential Storage* options, as described in the *Installing Certificates* section on page ##.
Poll Time	•

Office 365

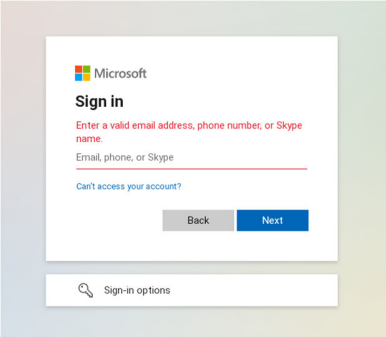
Microsoft



Office 365 Calendar Configuration Settings	
Tenant ID	Enter the required information regarding your O365 Tenant. Please refer to your Azure Portal https://portal.azure.com for more information and see Appendix A on page ## for steps to find this ID.
Client ID	Enter the required information regarding your O365 Client. Please refer to your Azure Portal https://portal.azure.com for more information and see Appendix A on page ## for steps to find this ID.
Verify	Once entered, the wizard will attempt a connection to your O365 server. You will be prompted to log in with your email & password as normal when accessing Microsoft services. Depending on your configurations and the calendars to which you have access, you may be prompted to select a calendar.

NOTE: Only Modern Authentication is supported. Support for Basic Authentication has ended and will not be supported.

Microsoft login & calendar selection:



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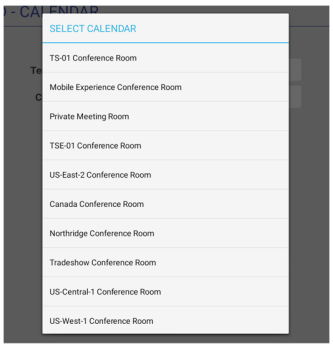
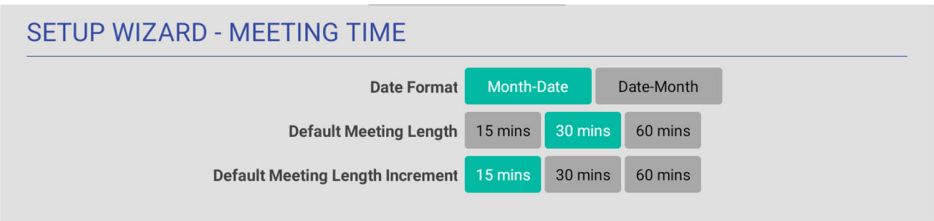


A correctly setup mailbox will look like this:

Meeting Time

Use the options in the MEETING TIME page to customize default meeting & timing options.

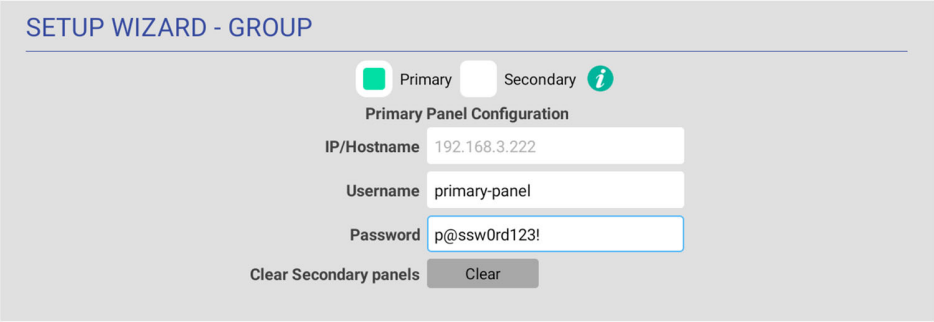


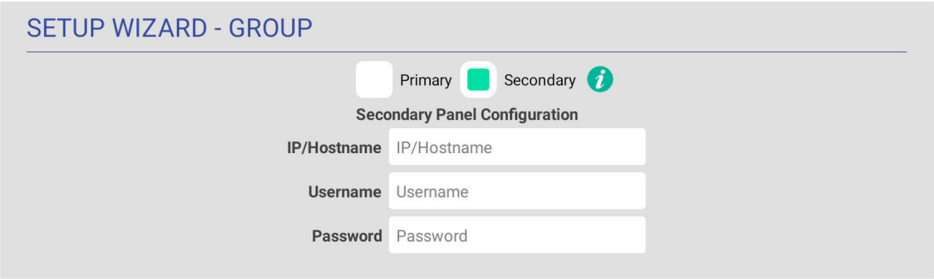
Setup Wizard - LOCALIZATION page options	
Date Format	Indicates the current date display setting for this panel (default = *Month-Date*). To change the date display to Month-Date format, press the **Month-Date** button.
Default Meeting Length	This setting specifies how many times each hour this panel can indicate separate meetings. The default setting is *15 minutes*, in which case this panel can schedule up to 4 meetings in an hour. To change the default meeting increment setting, press either the **30 mins** or **60 mins** button. • With *30 mins* selected, this panel can schedule a meeting every 30 minutes. • With *60 mins* selected, this panel can schedule a meeting every 60 minutes.
Default Meeting Increment	Indicates the current default meeting length setting for this panel (default = *30 minutes*). To change the default meeting length setting, press either the **15 mins** or **60 mins** button.

Group

AMX Book touch panels can be configured either as a Primary or Secondary, as it relates to a Scheduling Panel Group. Secondary panels communicate with the Primary panel, which enables panels to browse the schedules of panels in the same Group. This provides users with the ability to schedule a meeting in any room included in the Scheduling Panel Group, from any panel in the Group. For example, when a room is occupied, users can browse other rooms and schedule a meeting in any of the rooms in the Group.
Use the options in the GROUP page to configure this panel as either the Primary or Secondary of a Scheduling Panel Group. Note that there can be only one Primary panel for a Group. If there is only one stand-alone AMX Book panel, then it must be configured as a Primary.

NOTE: Up to 49 AMX Book panels can be configured as Members of a Primary panel's Group (for a total of 50 panels including the Primary). However, note that when configuring Scheduling Groups, smaller Room Groups typically have quicker responsiveness for "Browse Rooms" requests.



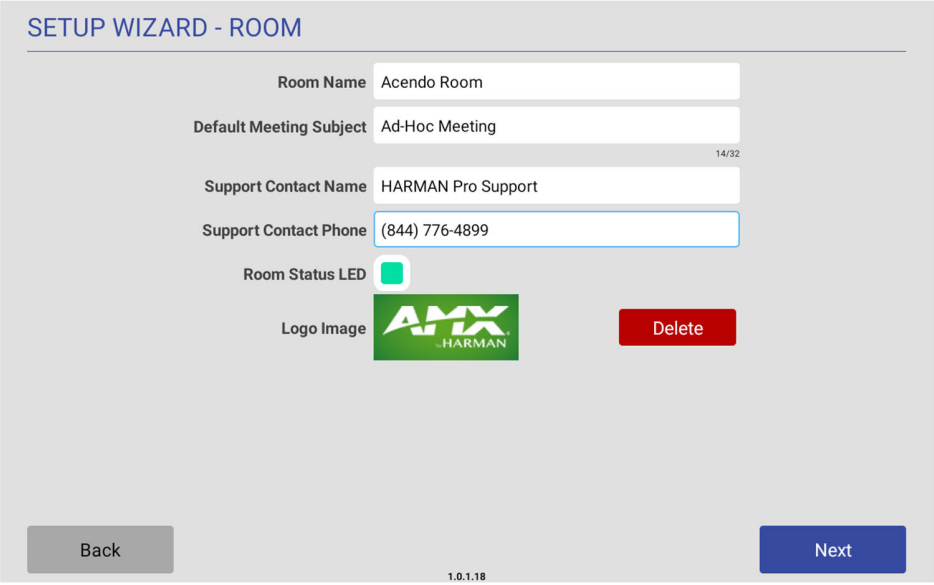


Setup Wizard - GROUP page options	
Primary/Secondary	Specify to use this panel either as a Primary panel or as a Secondary panel, as part of a Scheduling Panel Group (default = *Primary*).
Primary Configuration	With *Primary* selected, the following Primary Configuration options are presented:
IP/Hostname	This read-only field displays the Primary IP/Hostname currently assigned to this panel.
Username	Enter a Username to associate with this panel (required for Primary panels).
Password	Enter a Password to associate with this panel (required for Primary panels).
Clear Secondary Panels	Press to clear any and all members of the Group with which this Primary panel is associated.

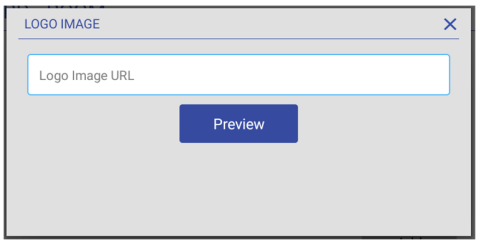
Secondary Configuration	With *Secondary* selected, the following Secondary Configuration options are presented:
IP/Hostname	Enter the Primary IP/Hostname of the Primary panel for the Group to which this Secondary panel belongs.
Username	Enter the Username associated with the Primary panel for this panel's Group.
Password	Enter the Passwords associated with the Primary panel for this panel's Group.

Room

Use the options in the ROOM pages to set room-level options for this panel



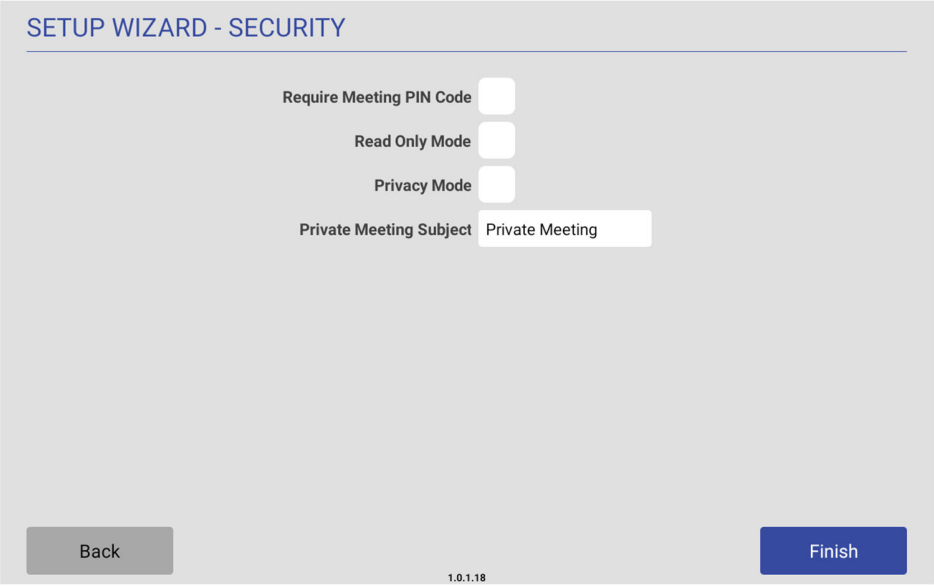
Setup Wizard - ROOM page options	
Room Name	Enter the room name as it will appear on this panel.
Default Meeting Subject	Enter a default meeting subject to be displayed on this panel. Note that this default subject can be over-written in the Room page (see the *Editing Meeting Details* section on page 71).
Support Contact Name	Enter the name of the support personnel as it will appear on this panel.
Support Contact Phone	Enter the phone number of the support personnel as it will appear on this panel.
Room Status LED	Press to toggle the Room Status LEDs on the panel, which light green when the Room is available, or red when the Room is occupied (default = *enabled*).
Logo Image	Indicates the current logo image, if applicable. Press **Add** to add a custom logo image. • Supported Formats: JPG, PNG • The custom logo image window is 375 x 165. AMX Book Panels will take the downloaded image and scale it down to fit in the window. However, to maximize the available space, the downloaded logo should have a similar aspect ratio (~2.2).



→

Security

Use the options in the SECURITY pages to set security & privacy options for this panel.



Setup Wizard - SECURITY page options	
Require Meeting PIN Code	When enabled, the PIN code will be required to reserve a meeting, edit Meeting Time/Details and Delete Meeting. Press to enable this option (default = *disabled*).
Meeting PIN Code	Enter the 4-digit PIN code that will be required to reserve, edit or delete a meeting on this panel, only if the *Require Meeting PIN Code* option (above) is enabled.
Read Only Mode	Press to toggle this option (default = *disabled*). When enabled, all fields on the Room page are displayed, but are read-only. In this case, users will be able to see all meetings and reservation details, but will not be allowed to reserve, edit or delete meetings on this panel.
Privacy Mode	Press to toggle this option (default = *disabled*). When in Privacy Mode, information considered to be private is hidden and immutable on this panel. See the *Privacy Mode* section on page 34 for details. *Note: If a meeting is booked outside of an AMX Book panel (i.e directly via the scheduling system software), then the subject line of the meeting will be replaced with the Private Meeting Subject text (default = "Private Meeting"). The default Private Meeting Subject text can be edited if desired (see page 34).*
Private Meeting Subject	Press to enter the text that will be used as the meeting subject displayed for private meetings. The text entered here provides the meeting subject for all types of private meetings: • It will be used when *Privacy Mode* is enabled on the AMX Book panel. • Will be used when a meeting is marked as *Private* by the calendar server (Exchange/Office 365/Google).
Finish	Press to exit the Setup Wizard (see *Exiting the Scheduling Panel Setup Wizard* on page 35).

Web Kiosk

Overview

These are settings available for the Web Kiosk persona.

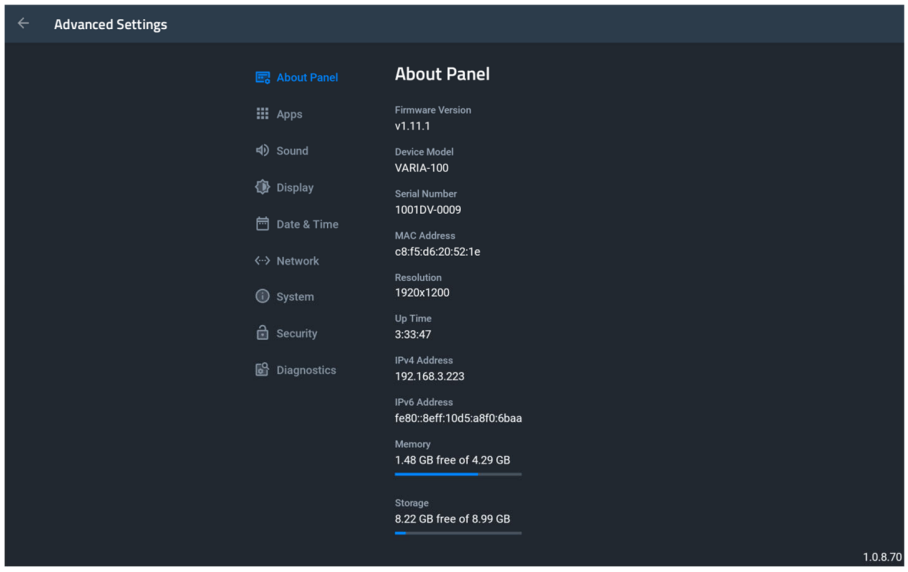
Web Kiosk Settings	
Default URL	
JavaScript	Allow the kiosk browser to use JavaScript
Force Dark Mode	Automatically render all web content using a dark theme

Advanced Settings

Overview

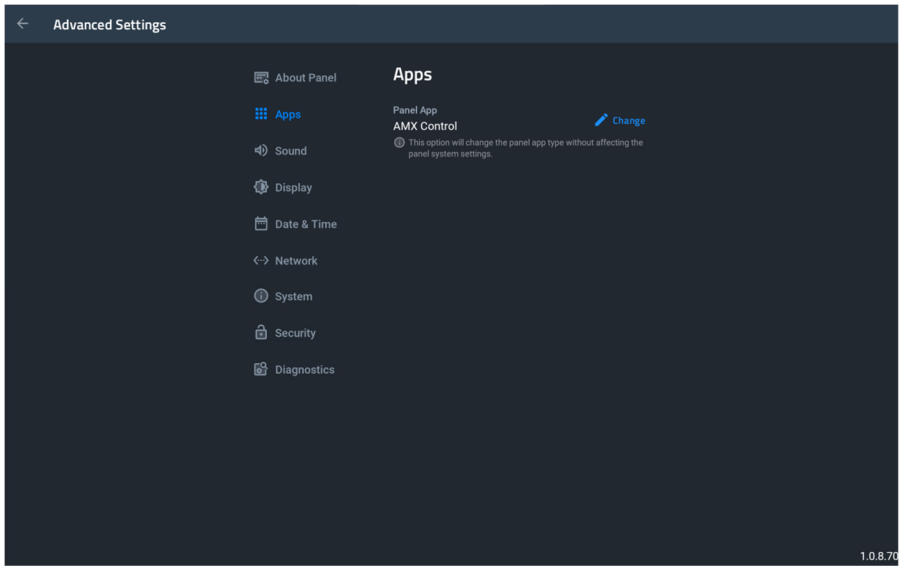
TBD

About Panel



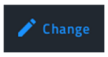
About Panel	
Firmware Version	Displays the panel's FW version
Device Model	Displays the panel's model number.
Serial Number	Displays the specific serial number value assigned to the panel.
MAC Address	Displays the panel MAC address
Resolution	Displays the panel's screen width & height in pixels.
Up Time	Displays the time elapsed since the panel was last started.
IPv4 Address	Displays the panel's IP address (v4).
IPv6 Address	Displays the panel's IP address (v6).
Memory	Displays the panel's used & total memory (RAM).
Storage	Displays the panel's used and total storage (eMMC)
Licenses	Select this entry to open the Legal Information window, which displays information on intellectual property notices and information on copyright concerns.

Apps



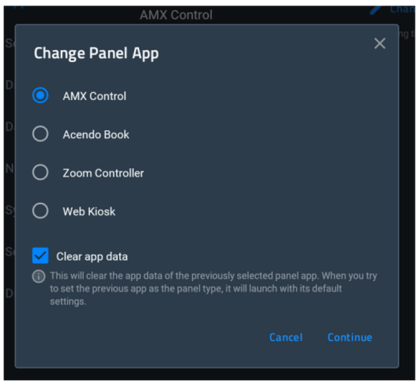
Apps

Displays to panel's currently selected Persona, and gives the option to change to a new persona.



By pressing [Change], you may choose a new panel persona. Select the desired Persona and press [Continue].

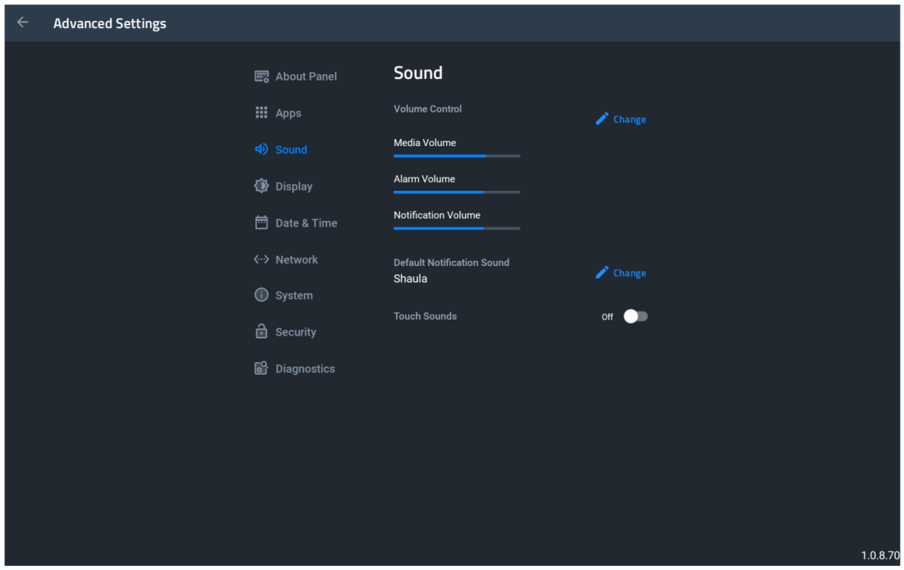
Panel App

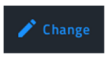
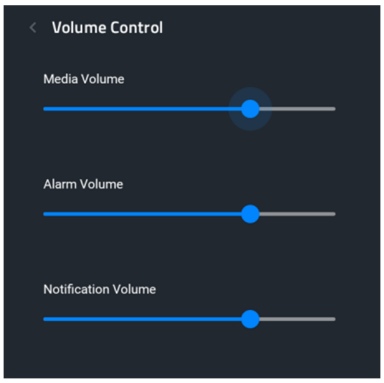
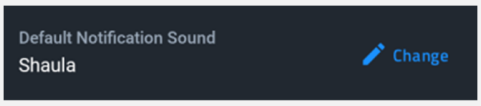
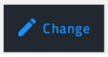


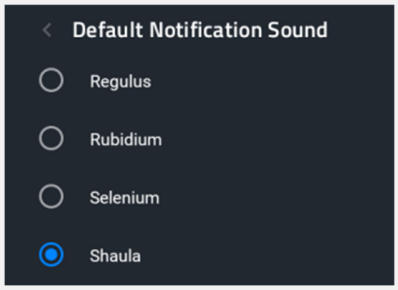
If you wish to exit without selecting a new persona, press [Cancel] or the [x] button.

Clear App Data will clear or preserve (checked or unchecked, respectively) the app data of the **current** persona, before switching to the new persona. This is helpful if you ever wish to return to the previous persona.

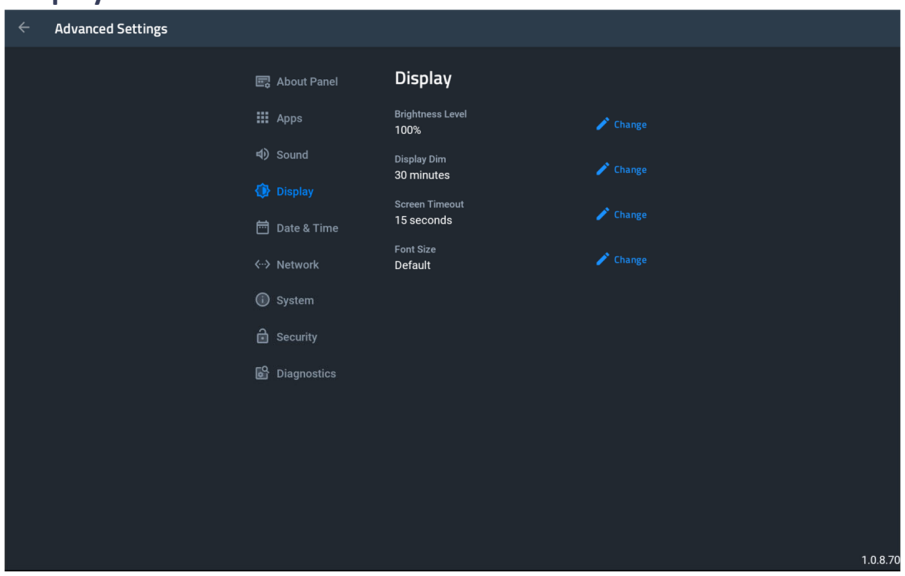
Sound

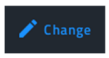


Sound	
Volume Control	Displays the current volume level for media, alarm, & notifications. If adjustment is needed, press the [Change] button.  Press or drag your finger across the slider and let go at the desired volume level. A sound will play at that new volume level to confirm loudness.  Press the Back arrow [<] to return.
Default Notification Sound	Changes the default notification sound on the panel.  To select a notification sound, press [Change]. 

Sound	
	 Press the Back arrow [<] to return. **Note:** this is not the *Button Hit* or *Button Miss* sound for the AMX G5 Control persona. Button Hit & Button Miss can be found in G5 Settings.
Touch Sounds	Displays the specific serial number value assigned to the panel.

Display



Display	
	Contains settings for panel brightness & Auto Display Brightness If adjustment is needed, press the respective [Change] button.
Brightness	 Press or drag your finger across the slider and let go at the desired brightness level. The panel will react to your changes when you lift your finger.

Display

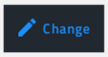
When **Automatically Adjust Brightness** is enabled, the panel will automatically adjust its brightness relative to the light levels in the environment.

Press the Back arrow [<] to return.

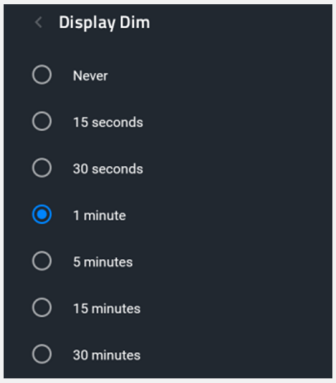
Display DIm

Display dim will lower the brightness level after a period of inactivity.

To adjust the time interval before dimming, press [Change].



Select a new time, or select Never to keep the screen at full brightness.



Press the Back arrow [<] to return.

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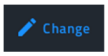
Screen Timeout

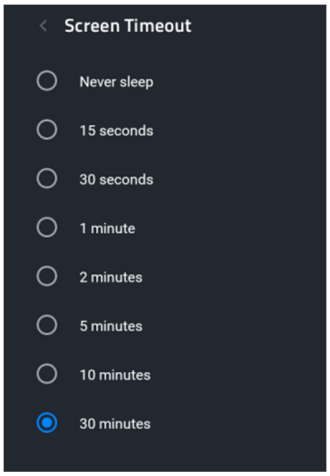
Screen timeout will turn off the display after a period of inactivity.

To adjust the time interval before timeout, press [Change].

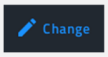
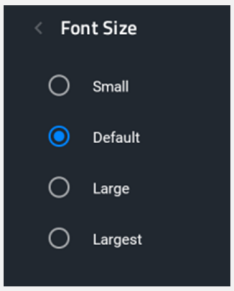


Select a new time, or select Never to keep the screen on at all times.

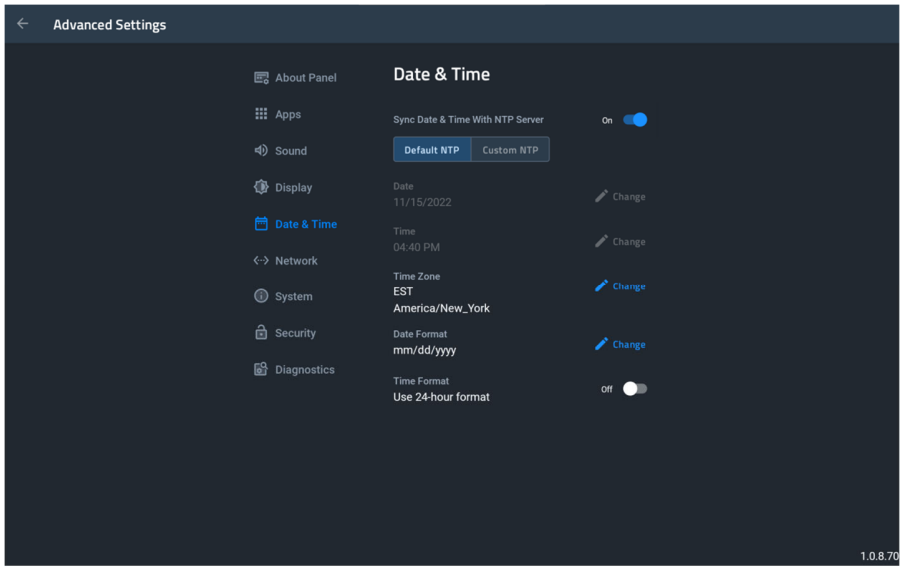
Display

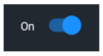
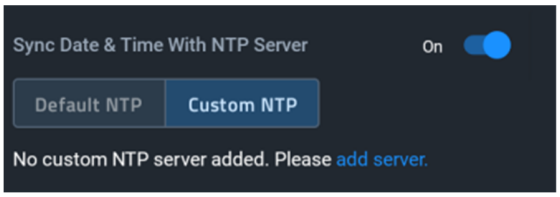


Press the Back arrow [<] to return.

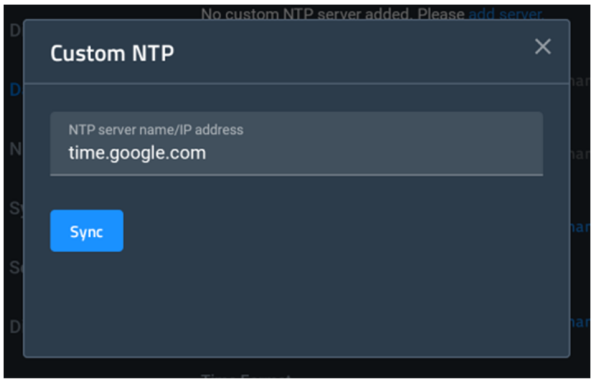
Font Size	The font size can be increased or decreased to your desired level. To adjust, press [Change].  Select a new font size from the choices.  Press the Back arrow [<] to return.

Date & Time



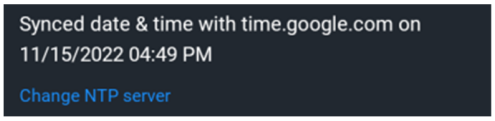
Date & Time	
Sync Date & Time with NTP Server	When enabled, the touch panel's date & time will be synced to either the default NTP (Network Time Protocol) server, or a custom NTP server (eg. *time.google.com*) To enable, turn the radio button ON.  For Default NTP, there are no additional settings to enter. The panel will periodically check the NTP server for date & time. A reboot may be required if you want immediate synchronization. If your panel's date & time are drastically different than actual, it may take up to 24 hours or more for the correct time to be synchronized. For Custom NTP, select this option and then press [add server].  Enter the custom NTP server URL and press [Sync].

Date & Time



The panel will attempt to connect and list the last successful sync.

If you need to change the NTP, press [Change NTP server].

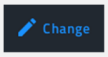


To disable NTP and set the date & time manually, turn the radio button OFF.

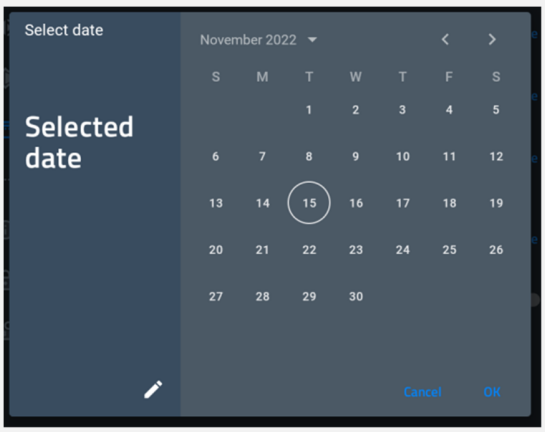
Date

When using NTP, the Date field is read-only.

With NTP disabled, adjust the date by pressing the [Change] button.



Use the calendar to select the date, either by using the calendar picker or by selecting the pencil icon to enter the numeric value.



To save your changes, press [OK]. To close without saving changes, press [Cancel].

Time

When using NTP, the Time field is read-only.

With NTP disabled, adjust the date by pressing the [Change] button.