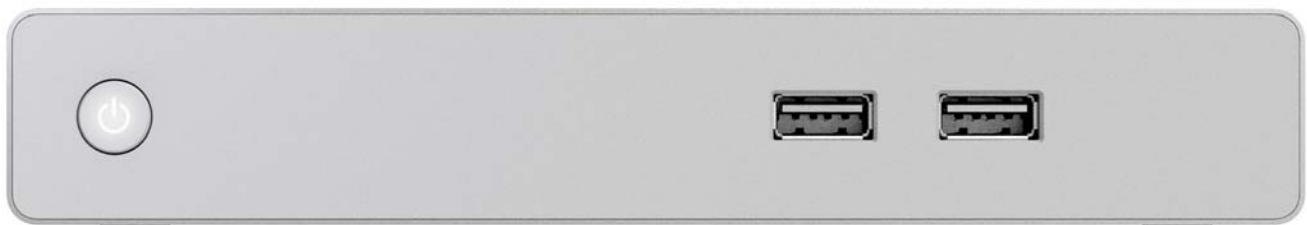




ADMINISTRATORS GUIDE

ACR-5100 ACENDO™ CORE™

MEETING COLLABORATION SYSTEM



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AMX warrants its products to be free of defects in material and workmanship under normal use for three (3) years from the date of purchase, with the following exceptions:

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- Disk drive mechanisms, pan/tilt heads, power supplies, and MX Series products are warranted for a period of one (1) year.
- AMX lighting products are guaranteed to switch on and off any load that is properly connected to our lighting products, as long as the AMX lighting products are under warranty. AMX also guarantees the control of dimmable loads that are properly connected to our lighting products. The dimming performance or quality there of is not guaranteed, impart due to the random combinations of dimmers, lamps and ballasts or transformers.
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Overview

Delivering a flawless start to any meeting, Acendo Core Meeting Collaboration System (**FG4051-00**) includes wide support for Web Conferencing Platforms including one-click Skype for Business meeting launch, document sharing, web browsing, room scheduling, and more, directly from the meeting space touch display or keyboard and mouse. This chapter provides a brief overview of the functional capabilities, details about connections and wiring, and product specifications of the Acendo Core System.

Features

- Wide support for Web Conferencing Platforms, including one-click Skype for Business – Users can quickly and easily join a scheduled Skype for Business meeting without having to find a link or meeting invite, enhancing productivity by reducing wait time.
- Built-in Document Viewers – Users can present content without bringing any devices to the room. Users simply walk into the room, start a session, navigate to their document (USB drive, network drive, or the web), and start their presentation.
- Network Drive Support – Many enterprises choose to have all their documents stored on network drives. If a user authenticates into a meeting, they will have access to content stored on those drives. As Core is always on, there is no waiting for boot up time allowing users to access their network content quickly enhancing workforce productivity.
- Active Directory Authentication – By natively integrating with Active Directory, users can authenticate into Acendo Core and access network drives. Furthermore, administrators have the option to require authentication in order to use Core for secure document and network access.
- Simple and Intuitive On-screen Scheduling – At a glance users can see the status of the meeting room. From the start screen, users can book the room if it is available, start their meeting, or book a nearby room quickly, therefore minimizing wait time and improving productivity
- End-of-Meeting Notifications – Meetings start on time because the previous meeting ended on time. Meetings have an opportunity to wrap up cleanly and capture actions effectively because users are provided with a calendar icon changing to amber 5 minutes prior to the end of the scheduled meeting time.

The following table highlights Acendo Core's primary functions.

Functional Capabilities	
Management Interface:	<ul style="list-style-type: none"> • On-screen configuration for Administrative users
Supported Documents:	<ul style="list-style-type: none"> • Word documents, View, print and copy even without Word installed (.doc, .docx, .rtf, .txt, .wpd, .wps). • Excel, Open, view, copy, and print workbooks, even without Excel installed (.xls, .xlsx). • PowerPoint, View and print presentations but not edit them (.ppt, .pptx). • Adobe Acrobat Files (.pdf)
Supported Document Sources:	<ul style="list-style-type: none"> • Local Downloads • Remote Shared Drives <p>NOTE: Document sources can be disabled.</p>
Supported Images:	<ul style="list-style-type: none"> • Portable Network Graphic (.png) • Joint Photographic Experts Group (.jpg) • BitMap Images (.bmp) • Graphics Interchange Format (.gif)
Supported Videos:	<ul style="list-style-type: none"> • .mp4 with H.264 video and AAC audio • Max video playback resolution is 1080p
Dual Display	<ul style="list-style-type: none"> • Supported dual setups: 4k + 4k OR 1080p + 1080p OR 720p + 720p. Acendo Core does not support dual displays with different resolutions.
Email:	<ul style="list-style-type: none"> • SMTP with SSL or TLS encryption <p>NOTE: Email can be disabled.</p>
Supported Web Browser:	<ul style="list-style-type: none"> • Microsoft Edge web browser that supports HTML5. Plug-ins, including Flash, are not supported. <p>NOTE: Web browsing can be disabled.</p>
Wallpaper:	<ul style="list-style-type: none"> • Supported Formats: .png • Resolutions: any • Customizable: A single wallpaper applied to all screens

Enclosure

The Acendo Core (ACR-5100) is passive cooled without the need for fans and constructed of silver powder-coated sheet metal. Its dimensions are 1.37" x 7.06" x 7.937" (34.8mm x 179 mm x 201.6 mm) H x W x D and requires 1RU slot when mounted in a 19" rack. The device is equipped with feet for tabletop usage. See *Installation* on page 11 for mounting instructions.

Front Panel Features

The Acendo Core front panel is intended to only be used for quick access for USB for document access and storage. The following section lists the features on the front panel of the ACR-5100.

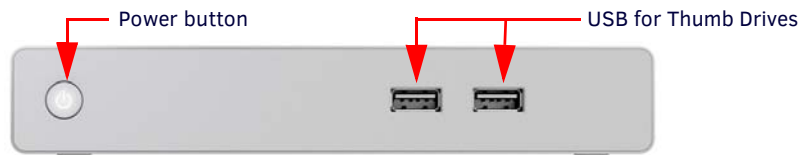


FIG. 1 ACR-5100 Acendo Core Front Panel

Power Button

When power is applied, the power button on the front panel lights up white. The device usually takes about 30 seconds to boot.

USB

The front panel features two Type-A USB 2.0 connectors for serial communication, touch screens, mouse and keyboard functionality, USB cameras, microphones, speakers, or reading from and writing to a mass storage device, such as USB hard drive or flash drive. (USB external hard drives may require their own power sources. The maximum current is 900mA per port).

Rear Panel Features

The following section lists the components on the rear panel of the Acendo Core.

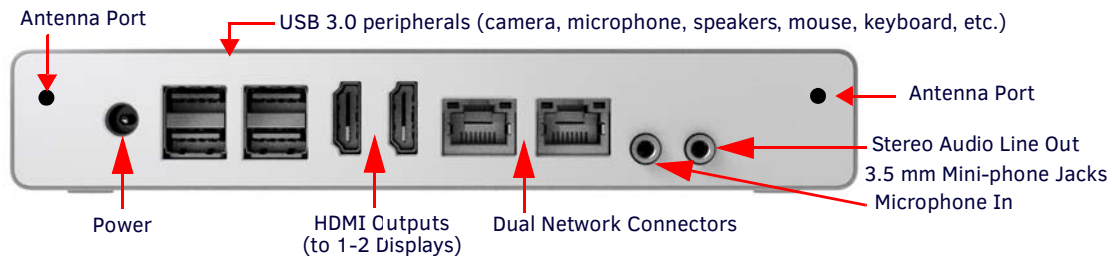


FIG. 2 ACR-5100 Acendo Core (Rear Panel)

Power

The Acendo Core power input requires +12VDC 5A from a barrel connector on an AC-DC power brick (100-240VAC) and cable that is included with the device.

USB

The rear panel features four Type-A USB 3.0 connectors (Two double-stacked USB connectors) for mouse and keyboard functionality, reading from and writing to a mass storage device such as USB hard drives or flash drives, microphone, speakers, AMX's Acendo Vibe or USB cameras such as AMX's Sereno Video Conferencing Camera.

NOTE: USB external hard drives may require their own power sources. The maximum current allowed across all USB ports is 4W.

NOTE: The USB connectors support USB mass storage devices using either FAT, FAT32, exFAT, or NTFS file system format.

NOTE: Once a USB drive is connected and Acendo Core mounts the drive, the files on it may be accessed. If a message stating the USB drive is mounted is not received, Acendo Core did not recognize the drive.

AMX Acendo Vibe

One of the USB ports can be connected to an AMX Acendo Vibe Conferencing Sound Bar to provide video conferencing capabilities. The USB connection from Acendo Vibe passes microphone audio and camera video. The HDMI connection from Acendo Core provides audio signal to Acendo Vibe while the video is passed through by Acendo Vibe to the display..

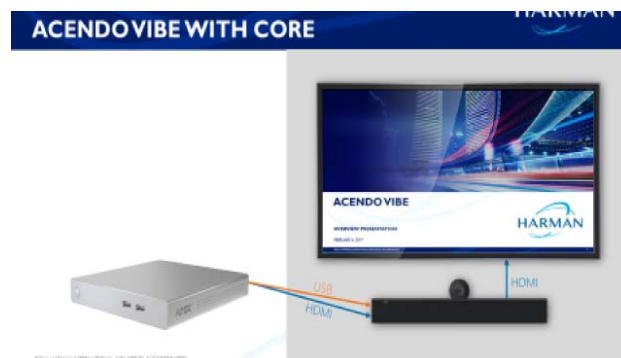


FIG. 3 ACR-5100 Acendo Core (With Vibe Connected to Rear Panel)

Dual Network Connections

The rear panel features two 10/100/1000 Base-T RJ-45 (8P8C) LAN ports for network connection via Cat5 cable. Port2 is disabled by default. FIG. 4 provides the pin outs and signals for the LAN connector and cable.

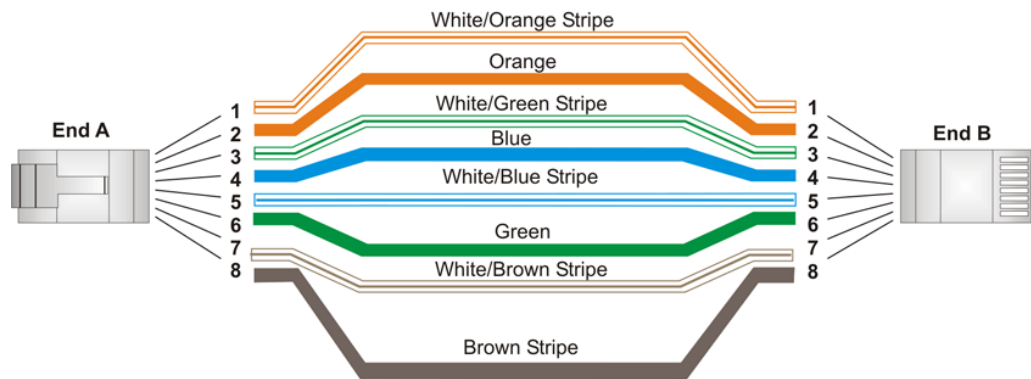


FIG. 4 RJ-45 Wiring Diagram

FIG. 5 describes the blink activity for the LAN connector and cable.

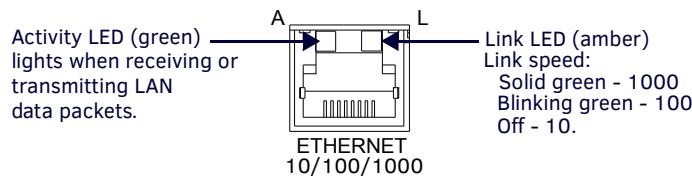


FIG. 5 LAN Connector / LEDs

Dual HDMI Outputs

The rear panel features dual HDMI 2.0 video outputs that can be used for dual display or extended desktop as configured by the system administrator in the Windows Display settings. These ports support the following:

- CEC protocol for high-level control functions
- Reading the E-EDID and first CEA Extension to determine the capabilities supported by the attached display device
- Chooses a default minimal resolution if no E-EDID is received
- Supports the following digital video output resolutions:

NOTE: Does not support dual displays with different resolutions. Both displays must use only one of these listed resolutions.

- 720p @ 60Hz
- 1080p @ 60Hz
- 4K @ 60Hz
- Support an audio/video interface for transferring uncompressed video data and compressed or uncompressed audio data from the HDMI source device to a display

The following table describes the pin-out configuration of the HDMI OUT connector:

HDMI OUT Connector Pin-outs and Functions			
Pin	Signal	Pin	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock-
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved, HEC Data
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC/HEC Ground
8	TMDS Data 0 Shield	18	+5V Power (max 50mA)
9	TMDS Data 0-	19	Hot Plug Detect, HEC Data+
10	TMDS Clock+		

FIG. 6 displays the pin locations for the HDMI connector:

Stereo Audio Line Output

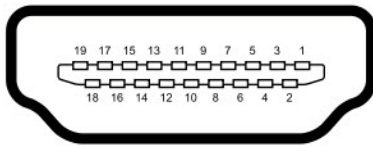


FIG. 6 HDMI Pin-outs

The rear panel features one 3.5mm mini-phono connector for stereo audio output jack with the right channel on the ring and the left channel on the tip.

Microphone Audio Input

The rear panel features one 3.5mm mini-phono connector for audio Input jack with the right channel on the ring and the left channel on the tip. This can be used to connect to AMX's Alero 8-channel microphone mixer for conference room meetings.

Wireless

Included in the Acendo Core device is a built-in IEEE 802.11 a/b/g/n/ac plus Bluetooth 4.0 wireless network card.

The wireless card also supports Miracast communications for screen and content sharing. Miracast™ is a groundbreaking solution for seamlessly displaying multimedia between devices, without cables or a network connection. Users can do things like view pictures from a SmartPhone on a big screen television, share a laptop screen with the conference room projector in real-time, and watch live programs from a home cable box on a tablet.

Specifications

The following table lists the specifications for Acendo Core:

ACR-5100 Specifications	
Dimensions:	1.37" x 7.06" x 7.937" (34.8mm x 179 mm x 201.6 mm) H x W x D
Weight:	1.1 lbs. (1.1 kg) TBA
Mounting Options	<ul style="list-style-type: none"> • Surface Mount: Wall-Mount racket included • Rack Mount Adapter: NMX-MM-RKA, Acendo Core Rack Mount Adapter (FG3211-60), not included. The rack mount adapter is designed for use with V Style Rack Mounting Tray (FG1010-720/721) and V Style Rack Mounting Shelf (FG3201-60), also not included

Continued 1

Regulatory Compliance:	<ul style="list-style-type: none"> • FCC - 47 CFR Part 15, Subpart B, Class B/IEEE ANSI C63.4-2014 • IC • CE EN 55022 Class A • CE EN 55022 Class B • CE EN 55024 • CE EN 60950-1 • UL 60950-1 • IEC 60950-1 • IEC 61000-4-2-2008 • C-Tick • VCCI • RoHS • REACH • WEEE
Power Requirements:	<ul style="list-style-type: none"> • Power Consumption: 60W (Max) • Input voltage: 100 – 240Vac • Rated Output current: 5.417A • Rated Output Voltage: +12 VDC • Connector: 5.5mm barrel connector • External universal power supply with AC-DC converter brick, 100/240 VAC, 50/60 Hz, included. • Power Indicator: (1) LED (red/green), solid red at start of boot, blinking green during boot, solid green after boot is complete
Environmental:	<ul style="list-style-type: none"> • Operating Temperature: 32° to 104° F (0° to 40° C) • Storage Temperature: -4° to 158° F (-20° to 70° C) • Rated Altitude: 5000 Meters • Operating Humidity: 5% to 85%, non-condensing • Storage Humidity: 5% to 90%, non-condensing • S/N (Signal-to-Noise) ratio, input to output, 90dB (weighted) • Audio Total Harmonic Distortion plus Noise (THD+N), input to output, 0.01%.

ACR-5100 Specifications	
Control	<p><i>NetLinx:</i></p> <ul style="list-style-type: none"> • Master Code: URL, Auto, Listen • ICSP Security: Yes <p><i>RS-232:</i></p> <ul style="list-style-type: none"> • Supported through USB using USB-DB9 adapter cable <p><i>Operation Button:</i></p> <ul style="list-style-type: none"> • Quick press: Sleep • Press-and-hold: System Settings
Port Usage	<ul style="list-style-type: none"> • 8888 TCP Group Manager • 1319 TCP Remote Logging • 23 TCP Telnet logging • 80 TCP Default port for AmxShare • 1319 UDP NetLinx • 587 Email Port
Processor:	<ul style="list-style-type: none"> • a quad core Intel Celeron SoC • x64 architecture and instruction set of 1.6 GHz which contains a burst option to 2.24 GHz
Operating System:	<ul style="list-style-type: none"> • Windows 10 IoT Enterprise
Memory:	<ul style="list-style-type: none"> • 4 GB RAM • 120GB solid state drive (SSD) as the primary internal storage media
Supported Calendar Systems:	<ul style="list-style-type: none"> • Microsoft Exchange 2013 SP1 or higher • Microsoft Exchange 2016 • Exchange Online (Office 365)
Bluetooth:	<ul style="list-style-type: none"> • 802.11a/b/g/n/ac standard protocol and frequency bands • Bluetooth 4.0 • Meets Bluetooth SIG standards • Bluetooth range (Min): 10 meters
HDMI Out:	<p>Two HDMI 2.0 Type A connectors for video output:</p> <ul style="list-style-type: none"> • Supports CEC protocol for display control • HDCP specification 1.4

Continued ↴

Analog Audio:	<p>One 3.5mm mini-phono connector for stereo output:</p> <ul style="list-style-type: none"> • Supports two channels (left/right) • Output Connection: 3.5 mm stereo audio jack • Output Level (Max): 0 dBV (1 Vrms) • Output Impedance: 100 Ohms • Frequency Response: 20-20 kHz • Dynamic Range: 90 dB <p>One 3.5mm mini-phono connector for single sided balanced audio input:</p> <ul style="list-style-type: none"> • Supports two channels (left/Right) • Input Level (Max): 0 dBV (1 Vrms) • Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz at both 16 bits and 24 bits • Input impedance: 10k Ohms
Ethernet:	<p>Two 10/100/1000 Base T LAN ports for network connection via Cat5 cable.</p> <ul style="list-style-type: none"> • Connection: (2) RJ-45, Auto MDI/MDI-X • Link/Act Indicator: (1) LED (green), <ul style="list-style-type: none"> a. on when link is up b. blink off for packet activity c. off when link is down • Speed Indicator: (1) LED <ul style="list-style-type: none"> d. <i>solid green</i> when the speed on the link is 1000 Mbps e. <i>solid amber</i> at 100 Mbps f. <i>off</i> when the speed is 10 Mbps • Support half and full-duplex • Support IEEE 802.1X port-based Network Access Control (PNAC) • Support WoL (Wake-on-LAN) feature (system awakens by a network message)

ACR-5100 Specifications	
USB:	<p>USB connectors support connecting peripheral devices such as a USB keyboard or mouse, a mass storage device such as a USB hard drive or flash drive, touch screens, or USB Cameras (UVC1.4).</p> <p>Connection:</p> <ul style="list-style-type: none"> • Two USB 2.0 Type A, 500mA, 480 Mbps • Four USB 3.0 Type A, 900mA, 4.8 Gbps • +5V Current Output (Max): 4 W total across all USB connections <p>Wireless Keyboard & Mouse:</p> <ul style="list-style-type: none"> • Supports 2.4 GHz RF wireless keyboard and mouse using wireless dongle (not included)
Applications:	<ul style="list-style-type: none"> • Viewers for PowerPoint, Word, Excel, and PDF document • Viewers for images and videos • Microsoft Edge web browser • Skype for Business Client (note: customers will need to supply a Skype for Business user account for each Acendo Core)
Optional Accessories:	<ul style="list-style-type: none"> • Acendo Vibe: ACV-5100 FG4151-00 GR/BL ACV-5100 FG4121-00 GR/BL • CBL-HDMI-FL, HDMI High Speed Flat Cable with RedMere® Technology (FG10-2180-16) • CBL-USB2-FL-16 (FG10-2220-16) 16ft USB 3.0 Flat Cable • CBL-USB2-FL-33 (FG10-2220-33) 33ft USB 2.0 Flat Cable • CBL-USB-FL2 (FG10-2197-16) 16ft USB 3.0 My Turn Ready Flat Cable • CBL-ETH-FL2-16 (FG10-2194-16) 16ft CAT6 Ethernet Cable • CBL-HDMI-FL2-16 (FG10-2192-16) 16ft HDMI My Turn Ready Flat Cable • AVB-VSTYLE-RMK-1U V-Style Box Tray (FG1010-720) • AVB-VSTYLE-RMK-FILL-1U,V-Style Box Tray with Fill Plates (FG1010-721) • NMX-VRK V-Style Rack Shelf (FG3201-60) • NMX-MM-RKA (FG3211-60)

Acendo Core Welcome Screen

The Acendo Core Welcome screen provides users with room booking abilities, a 48 hour scheduler view, Admin sign on feature. The Admin username and password must be entered to view or change any of the system settings.

User Login

Users can access the user Home screen by clicking on the blue *Use Room Now* button at the center of the welcome screen (FIG. 7).

Admin Login

- Administrators can login by clicking on the **Key/Door** icon in the bottom left of the screen (FIG. 7).

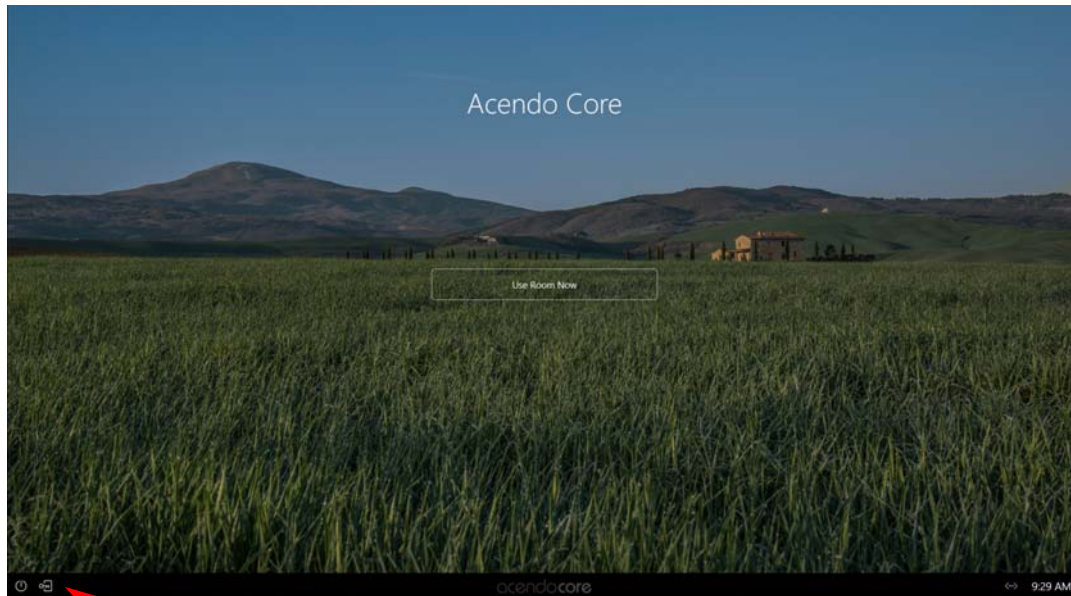


FIG. 7 Acendo Core Main Screen

- The login screen appears (FIG. 8).

NOTE: The Domain field will not be visible if unit is off domain. Additionally, *Log In* and *Login In as Guest* will not be visible if off domain.

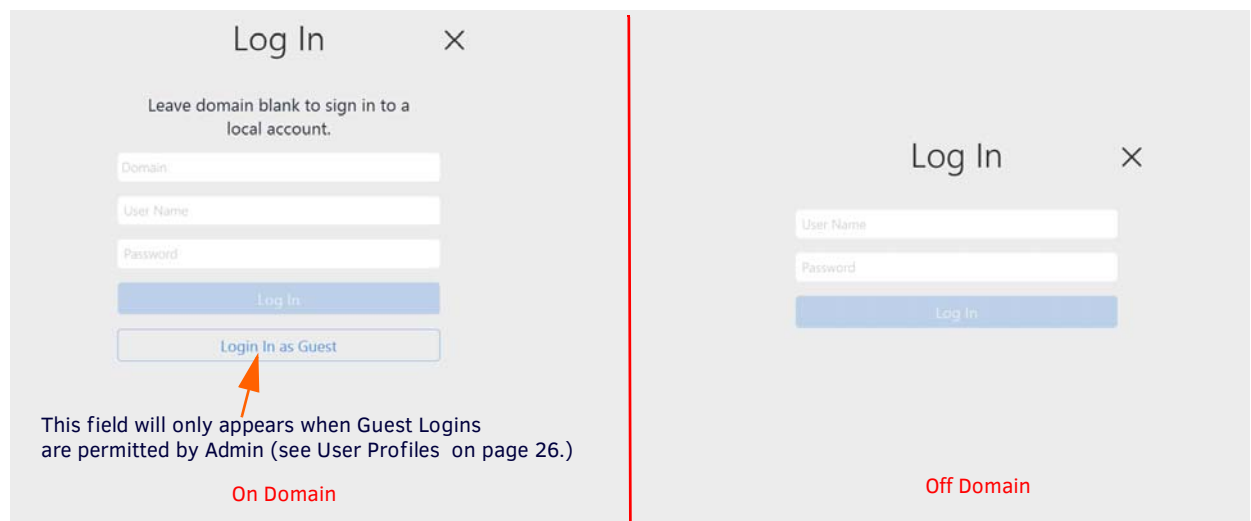


FIG. 8 Login Screen - On Domain (left) and Off Domain (right)

- Log into the session on the Acendo Core using Admin credentials:
 - Username -coreadmin
 - Password - c0r3@dmiN (c "zero" r3@dmIN)

NOTE: Remote access into Rome (RDP) is not supported. You can use the RDP client on Rome to remotely login and access other non-Rome PCs. Due to Rome's ecosystem only local single sign-on is allowed.

Acendo Core Home Screen

The Acendo Core Home screen provides users with access to default applications and up to four additional Admin assigned App Favorites in the Applications tool bar (FIG. 9). Some features in the System Tool Bar are not available to non Admin users such as System Settings and the Windows control panel defined later in this chapter.

1. After an Admin user Login, the system displays the following screen with an app tool bar down the left side and additional settings lower right.



FIG. 9 Administrator Session Screen

System Tool Bar

The System Tool bar provides at-a-glance system statuses and for Administrators, access to system settings (see *Acendo Core System Settings* section on page 15) and System Shortcuts (FIG. 10). The System Shortcuts are standard Windows locations used to make system-wide changes. Shortcuts are as follows:

- File Explorer - Opens a view of file folders and network locations.

NOTE: Both guest and domain users are able to view Program files (though they are not able to edit these files), create folders on the C drive and write to the C drive. Files and folders written to the root of the C drive that were not there at the beginning of a session will, in fact, be purged upon logout.

- Windows Settings - Opens Windows Settings to make system changes to privacy, accounts, network, devices, etc.
- Control Panel - Opens the Windows system Control Panel to make changes to network locations, hardware changes, etc.
- Computer Management opens the Windows system Computer Management screen to view performance, folders, etc.
- Command Prompt - opens a Command Prompt window for DOS users/

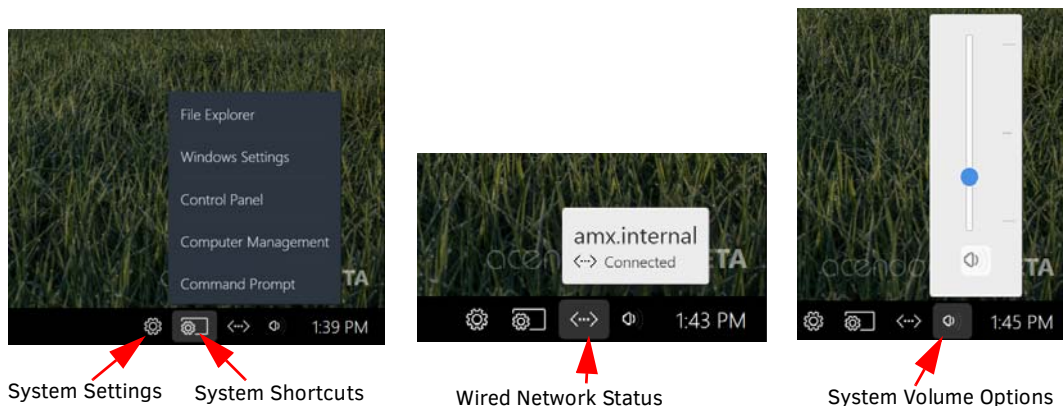
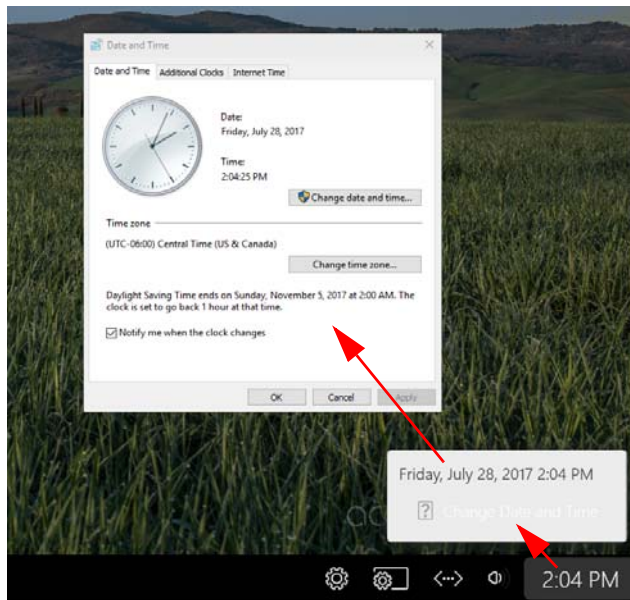


FIG. 10 System Toolbar

System Clock

Clicking on the System time will bring up the Day of the Week, Date and Time view as shown in FIG. 11. Furthermore, click on the Change Date and Time link to bring up the Windows System clock to make changes.



Click on *Change Date and Time* to bring up the Windows clock.

Click on the time to bring up this view.

FIG. 11 System Clock

Application Manager

The Application Manager is used to show the current applications that have open windows FIG. 12. Users can then select one of the apps to reopen, or close each window by selecting the "X" in the top right corner of each app.

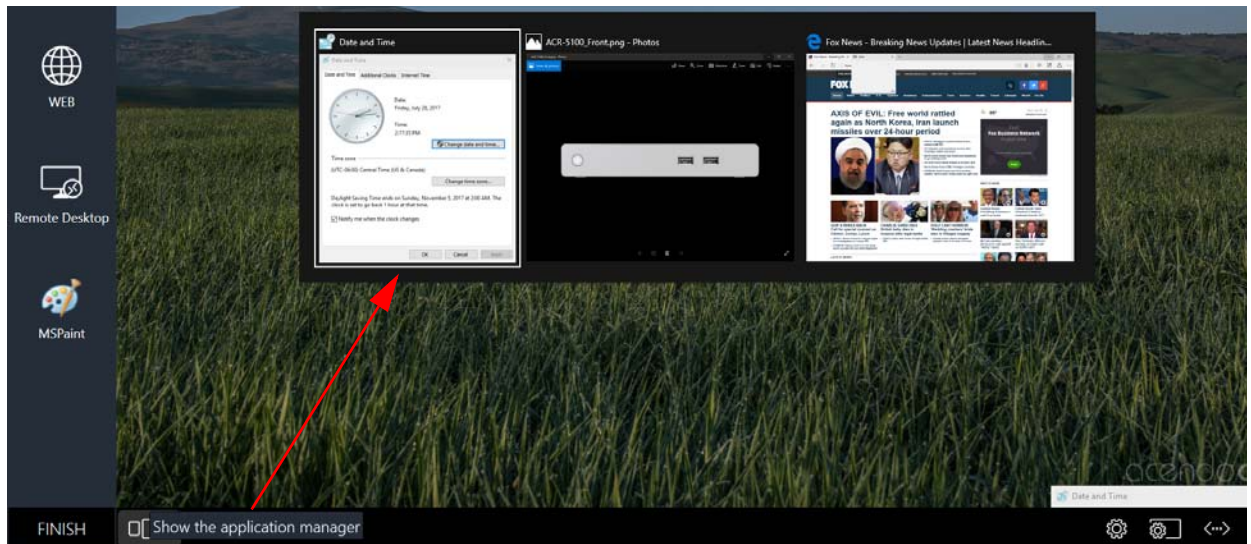


FIG. 12 System Clock

Finish - Log Off

To exit a session, users should select the Finish button in the bottom right of the screen and select from the options shown (FIG. 13)..

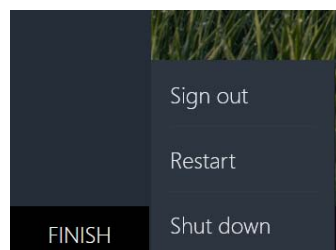


FIG. 13 Finish Session Options

When users and guests logoff the system the following user folders are deleted for ALL users:

- CD Burning
- Cookies
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Public Desktop
- Public Documents
- Public Downloads
- Public Music
- Public Pictures
- Public Ringtones
- Public Videos
- Ringtones
- Videos

And the following for the Core Guest account only:

- Application Shortcuts
- Favorites
- History
- Internet Cache
- Links
- Recent
- Saved Searches
- Search History

In addition, for all accounts but Core Admin, files or folders created in the root of the C:\ drive will be deleted. This only applies to the root and does not track into any sub-folders of C:\.

Window Service Plan Information

The following link provides Microsoft's overview of Windows as a service:

<https://docs.microsoft.com/en-us/windows/deployment/update/waas-overview#servicing-channels>

Acendo Core Release 1 service plan:

1. Acendo Core is aligned with the Microsoft's Semi-Annual Channel.
2. Acendo Core will utilize a group Policy enabling the full 365 day deferment period of all feature updates (from the date they are released) in order to support feature update integration.
- 3.

Installation

Overview

The Acendo Core (ACR-5100) is passive cooled without the need for fans and constructed of silver powder-coated sheet metal. Its dimensions are 1.37" x 7.06" x 7.937" (34.8mm x 179 mm x 201.6 mm) H x W x D and requires 1RU slot when mounted in a 19" rack. The device is equipped with feet for tabletop usage. See *Installation* on page 11 for mounting instructions. The recommended installation locations are:

- Wall mounted behind a display
- Mounted underneath a table
- Inside credenza
- Out on top of the credenza
- In a rack shelf.

Installing Acendo Core is a quick and simple process. Before connecting the ACR-5100 to its peripheral devices and powering the device, be sure to mount the device using the desired method detailed below.

Installation

What's in the Box?

The Acendo Core Meeting Collaboration System includes the following accessories:

- Power supply/cord
- 1 Mounting Plate and 2 Stand-off Screws
- Safety Instructions and a Quick Start Guide

Physical Installation

To install Acendo Core, the following items are needed:

- 1 HDMI cable (Type A male)
- Ethernet cable
- 1 HDMI touch screen or HDMI monitor with USB keyboard and/or mouse
- Mounting screws are needed for wall or under desk mounting options

Acendo Core can be mounted using the included mounting plate for wall or under desk mount or can be used as a table-top device.

Attach Mounting Plate

1. Using the mounting plate as a template, place it into the desired position and mark four of the wall screw holes with a pencil.

Note: *If mounting on a wall, a level can be used to set the plate level for aesthetics.*

2. Pre drill the holes for your wall screws.

Note: *Use a drill bit smaller in diameter than your wall screws.*

3. Place the plate back onto the mounting surface, insert wall screws and tighten.

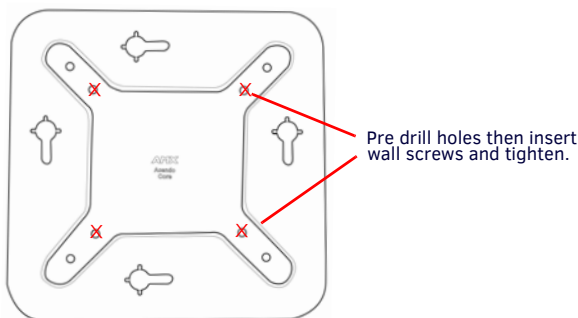


FIG. 14 BACKPLATE - INSERT SCREWS AND TIGHTEN

Attaching to Mounting Plate

1. Insert the included stand-off screws into two adjacent holes on the bottom. Align the stand-off screws on the Acendo Core unit with the slotted holes in the plate and push through. Slide to lock.

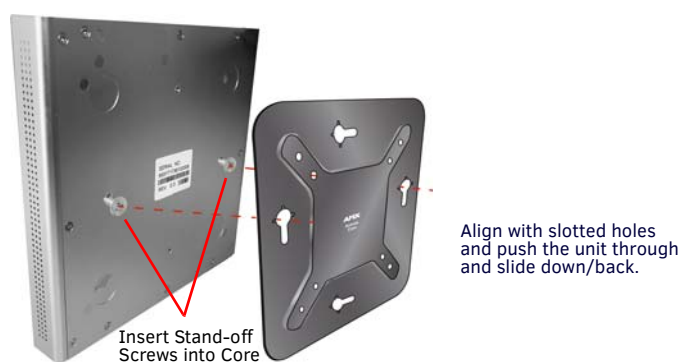


FIG. 15 ATTACH STAND-OFF SCREWS, INSERT THROUGH BACKPLATE

Connections

FIG. 16 displays the ports provided on Acendo Core.

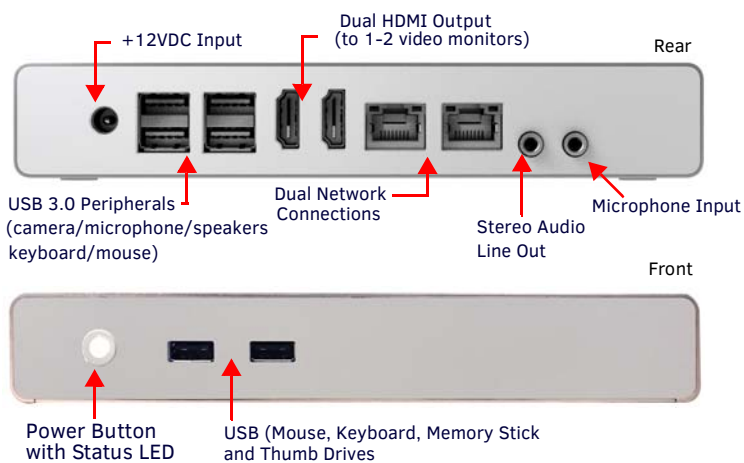


FIG. 16 ACENDO CORE CONNECTIONS

Acendo Core Power Up

This section describes the required steps to successfully power up the Acendo Core ACR-5100. FIG. 17 provides references to the Acendo Core rear access ports that will have connections made to peripheral devices, monitors, and power.

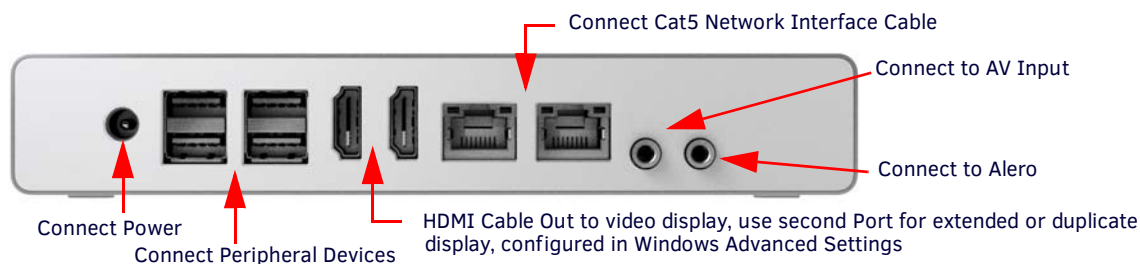


FIG. 17 ACR-5100 Acendo Core (Rear Panel)

Connecting to a Video Output

The ACR-5100 uses standard HDMI cabling to connect to a monitor/projector.

1. Use an HDMI cable to connect the HDMI Port1 on the Acendo Core rear panel to the display monitor.
2. To use Dual displays, use an HDMI cable to connect a second monitor to the additional HDMI Port on the rear panel. Some configuration will be required in Windows to set up the dual displays. Go to the Windows Control Panel as shown in FIG. 18.

NOTE: Does not support dual displays with different resolutions. Both displays must use only one of these listed resolutions:

- 720p @ 60Hz
- 1080p @ 60Hz
- 4K @ 60Hz

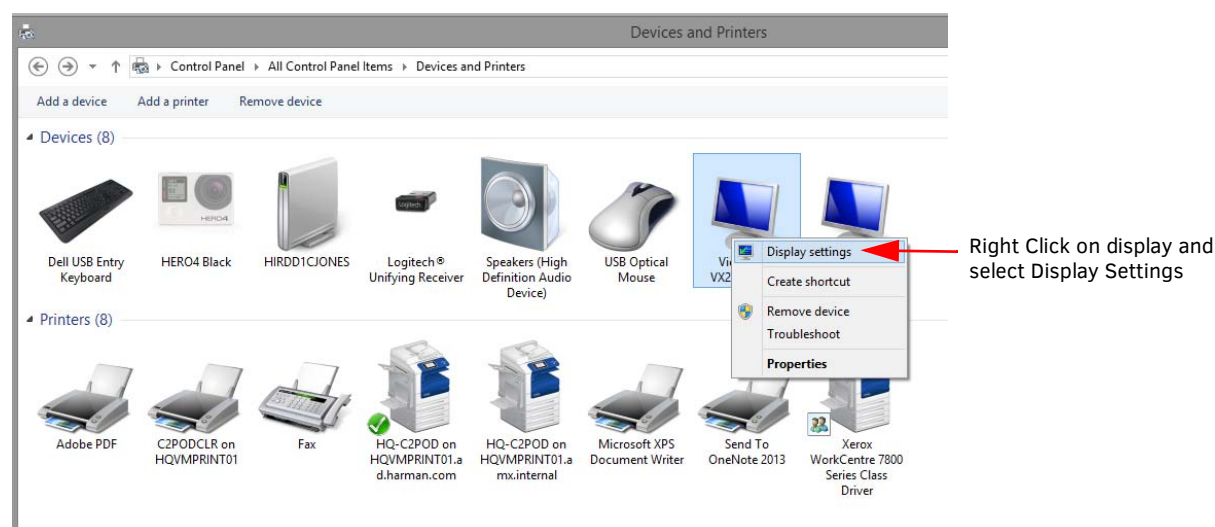


FIG. 18 Windows Control Panel - Devices and Printers

3. Right click on the display to select Display Settings. FIG. 18 appears. Select the Extend these displays options to combine two displays to create a larger desktop.

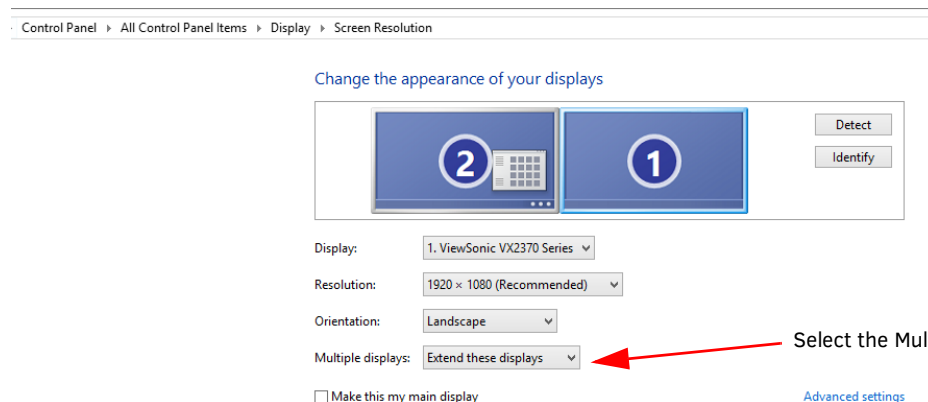


FIG. 19 Windows Control Panel - Display Settings

Connecting a Keyboard and Mouse

Acendo Core front and rear panels each feature Type-A USB ports for mouse and keyboard functionality, two on the front and four on the rear. The ports may also be used for reading from a mass storage device, such as a USB hard drive or flash drive. (USB external hard drives may require their own power sources. The maximum power allowed across all USB ports is 4W.)

NOTE: In addition to a directly connected USB keyboard and mouse, the ACR-5100 also supports using a 2.4 GHz RF wireless keyboard and mouse using a wireless dongle. Bluetooth devices are NOT supported.

NOTE: The USB connectors support USB mass storage devices using either FAT FAT32, exFAT, or NTFS file system format.

NOTE: Once connected to a USB drive and Acendo Core mounts the drive, the files on it may be accessed. If a message stating the USB drive is mounted is not received, Acendo Core did not recognize the drive. A storage device's contents are not accessible if the device is connected while another storage device occupies a USB port. If a first USB drive is connected, mounted, and unmounted, a second USB drive will still not be recognized unless the first USB drive is removed from the Acendo Core device.

Connecting Power

Connecting power to the ACR-5100 requires the AC-DC power brick and cable provided with the device.

1. Insert the barrel plug into the ACR-5100 power input marked +12VDC 5A.
2. Connect the power brick to an AC outlet (100-240VAC) using a standard power cord.
3. Verify that the front panel led lights up. When power is applied, the POWER LED on the front panel lights up white. The device usually takes 20-30 seconds to boot. When booting is complete, the ACR-5100 opens to the Acendo Core desktop (FIG. 20).

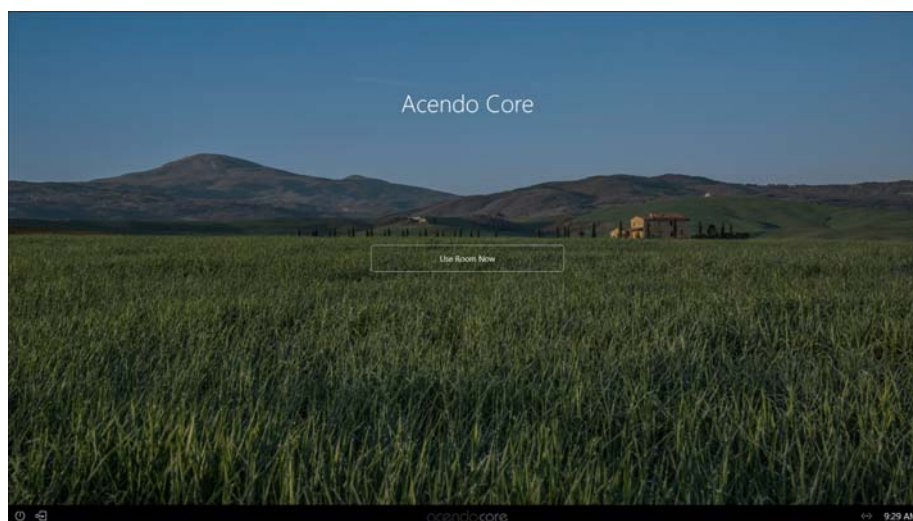
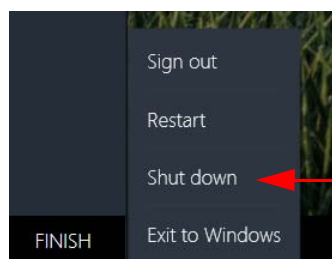


FIG. 20 Acendo Core Desktop

Disconnecting Power

To disconnect power from the AcendoCore unit, follow these steps:

1. Click on FINISH in the lower right-hand corner to bring up the menu (FIG. 20)..



Select *Shut down* to turn off the unit.

FIG. 21 Acendo Core Finish Menu

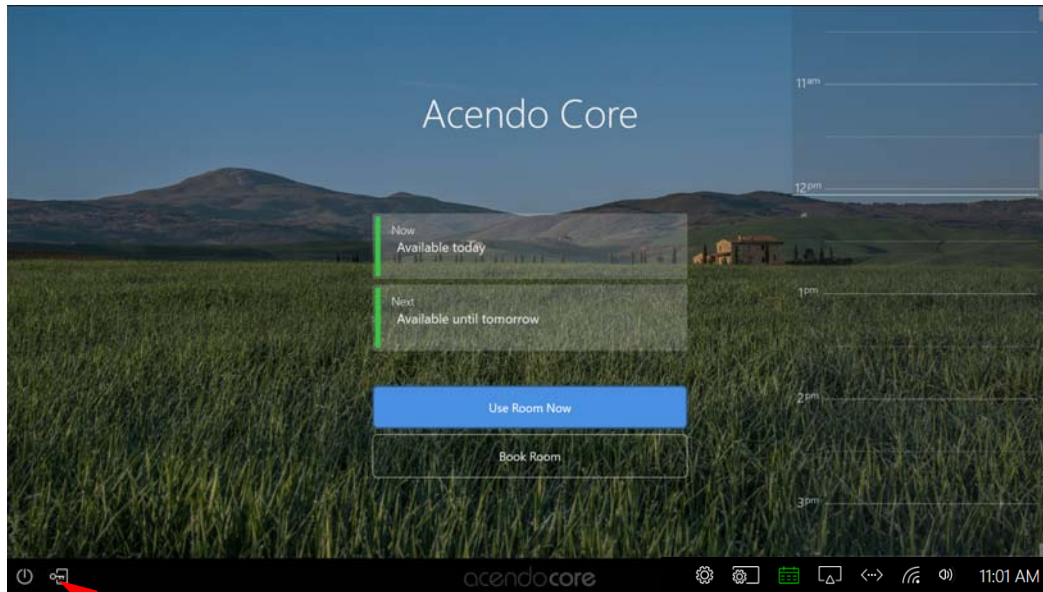
2. Select Shut down to allow the unit to close its apps and turn off.
3. Remove the wall plug from the AC outlet.
4. Unplug the barrel plug from the rear of the units input marked +12VDC 5A.

Acendo Core System Settings

Login

The Acendo Core System Settings are only available to system Administrators. The Admin username and password must be entered to view or change any of the system settings.

1. Press the **Key/Door** icon in the bottom left of the screen next to the Power Icon to bring up the login screen.



Press on the Key/Door icon to make changes to the system (Administrators Only).

FIG. 22 Acendo Core Main Screen

2. The login screen appears (FIG. 23).

NOTE: The Domain field will not be visible if unit is off domain. Additionally, *Log In* and *Login In as Guest* will not be visible if off domain.

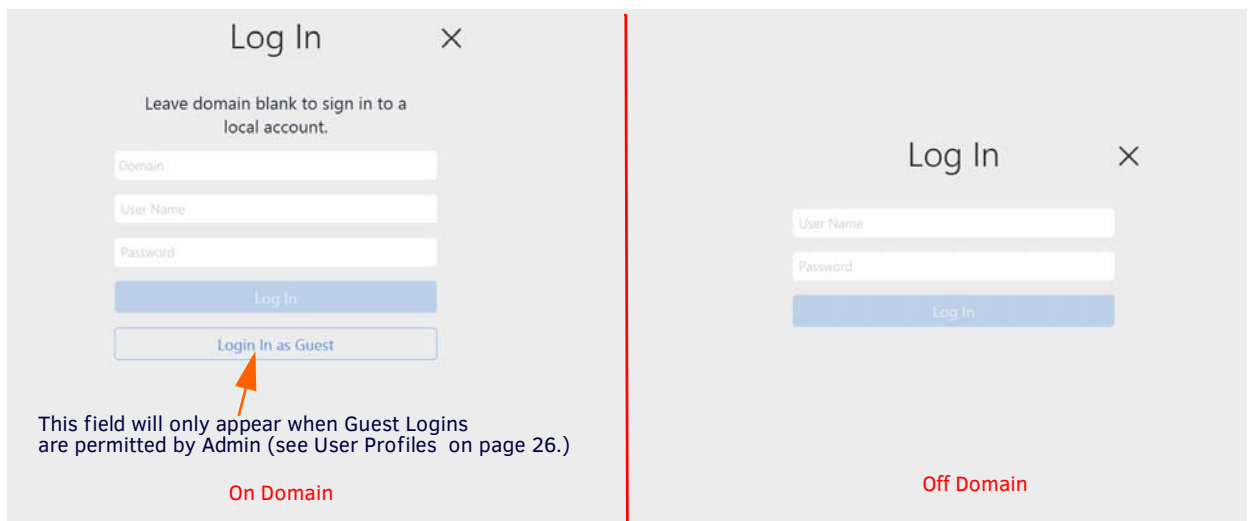


FIG. 23 Login Screen – On Domain (left) and Off Domain (right)

3. Log into the session on the Acendo Core using Admin credentials:
 - Username -coreadmin
 - Password - c0r3@dmiN (c zero r 3@dmiN)

- After an Admin user Login, the system displays the following screen with an app toolbar down the left side and additional settings lower right.

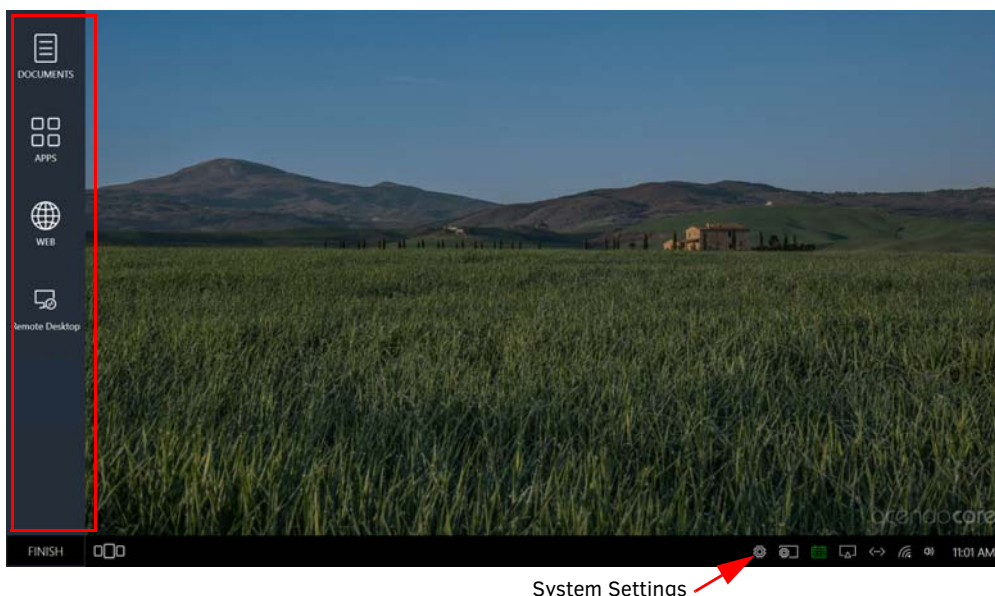


FIG. 24 Administrator Session Screen

Experience

- Clicking on the Acendo Core Settings button brings the user to the About Acendo Core screen.

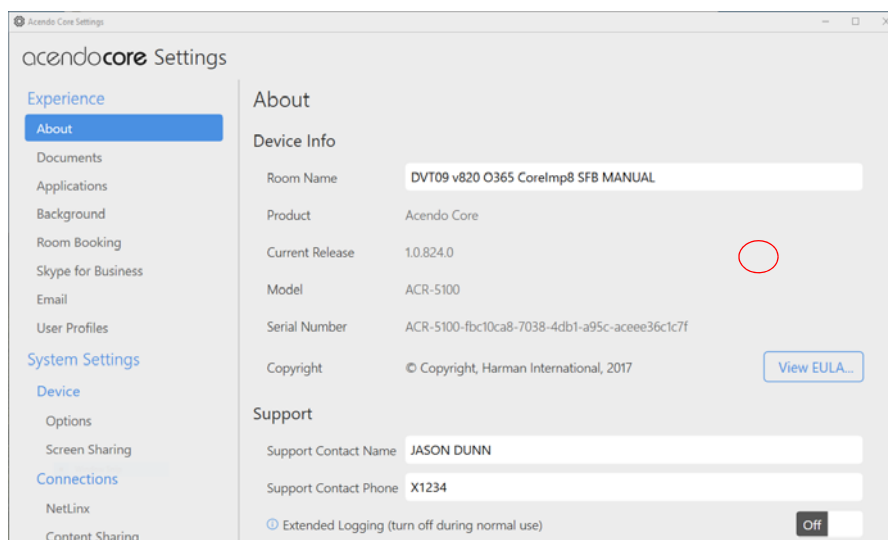


FIG. 25 Acendo Core Settings - About

Refer to a section listed below for complete details on specific settings:

- *About* on page 17
- *Documents* on page 17
- *Applications* on page 17
- *Background* on page 21
- *Room Booking* on page 21
- *Skype for Business* on page 29
- *Email* on page 31
- *User Profiles* on page 32
- *Device - Options* on page 33
- *Screen Sharing* on page 40
- *Share Internet Connection* on page 41
- *NetLinx* on page 42
- *Content Sharing* on page 43

- *System - Acendo Core Updates* on page 45
- *Import/Export* on page 46
- *System Recovery and Backup* on page 48

About

Selecting *About* (FIG. 25 above) will display this specific Acendo Core unit's configuration such as:

- Room Name - Assign a room name to this unit so it can be uniquely identified.
- Product - Static information defining this unit as an *Acendo Core*
- Model - Static information defining this model as *ACR-5100*
- Serial Number - Serial number of this unit. Each Core unit will have a unique number assigned from the factory.
- Copyright - AMX copyright protecting interests of the company.
- Support Contact Name and Contact Number - Add an AMX or Dealer contact information for easy access to this information should issues arise.
- Export Diagnostics - Selects a folder to save diagnostics to on your local system.

Documents

Select *Documents* to bring up the following options:

- Documents - Enable or disable users ability to access documents for display from Local Downloads, Remote Shared Drives or USB Drives. Disabling documents will remove the document icon from the left tool panel.

NOTE: *The most straightforward method for an Admin to disable USB devices is using group policies. See Wireless Presentation Issues section on page 63*

- Local Downloads - Enable or Disable access to this source.
- Remote Shared Drives - Enable or Disable access to this source.
- USB Drives - Enable or Disable access to this source.

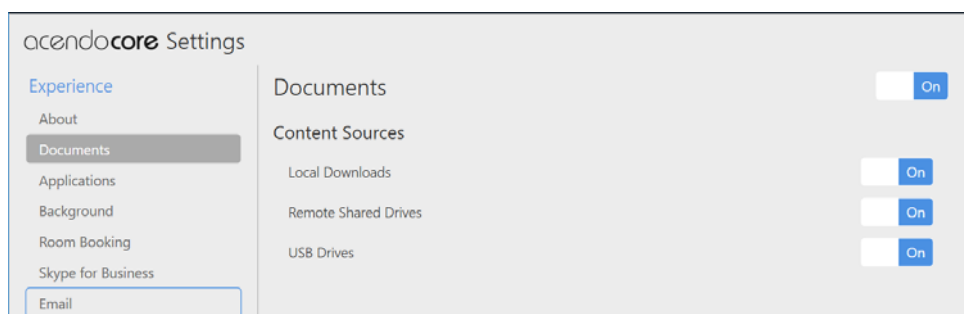


FIG. 26 Acendo Core Settings - Documents

Applications

1. The Applications section enables Admins to turn access to Applications on or off, add more apps to the device, or specify default *Favorites* (up to four) that will be displayed on the Home screen,

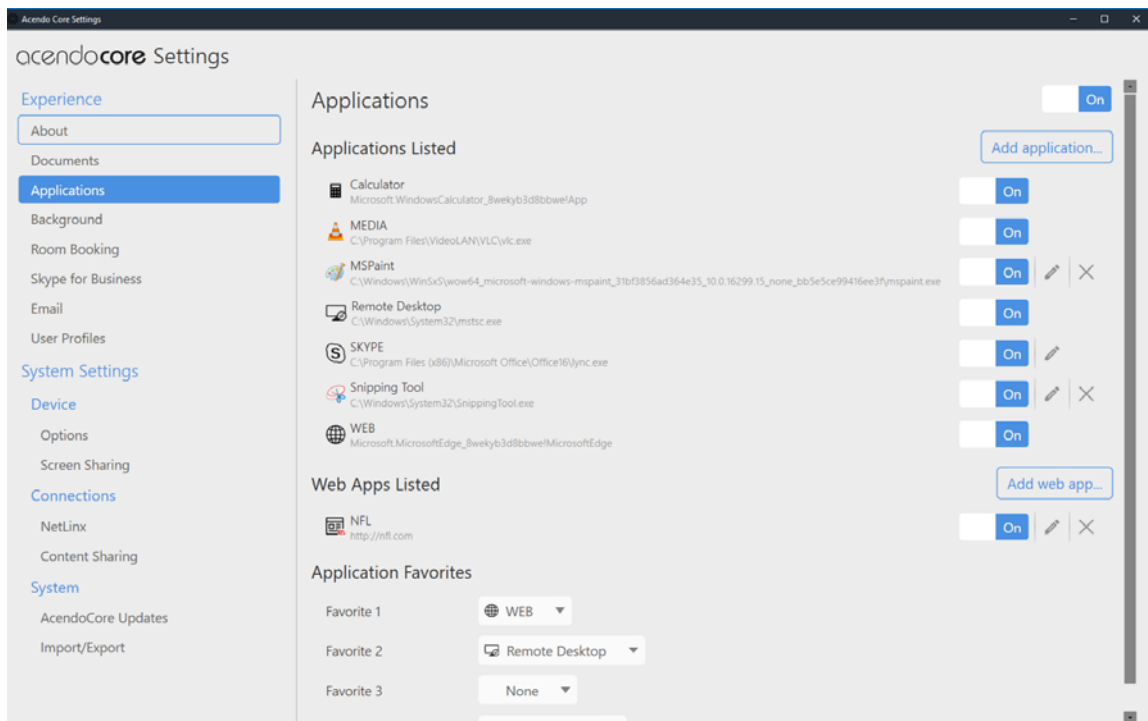


FIG. 27 Acendo Core Settings - Applications

Applications Listed

Applications Listed shows all of the applications that have been added to this device. Default apps are:

- Skype for Business
- Web Browser
- Media Player
- Remote Desktop
- Calculator

Follow these instructions to add additional applications to this device.

1. Hovering over the *Add Application* button will highlight it, Select it to add an application. The following dialog pops up.

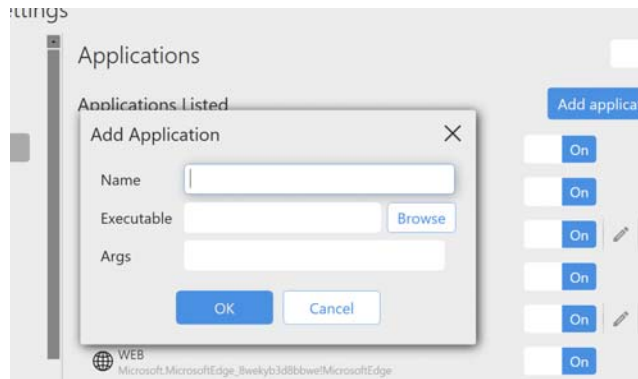


FIG. 28 Acendo Core Settings - Applications - Add Application

2. Enter a name for the Application.
3. Click Browse to locate the executable file (.exe) to add the app.
4. This field is for application command line arguments so it's application dependent. If the application supports arguments the user can use this field to pass them at execution startup (i.e., open a document when launching Word).

Web Apps Listed

Web Apps Listed will display any Web Applications that were added to this device which could consist of corporate programs on local servers.

1. To add an application from the Internet, Click on the Add Web App button. The pop up shown in FIG. 29 shows a Web App dialog,
2. Enter a *Name* and the URL address of the app and click **OK**.

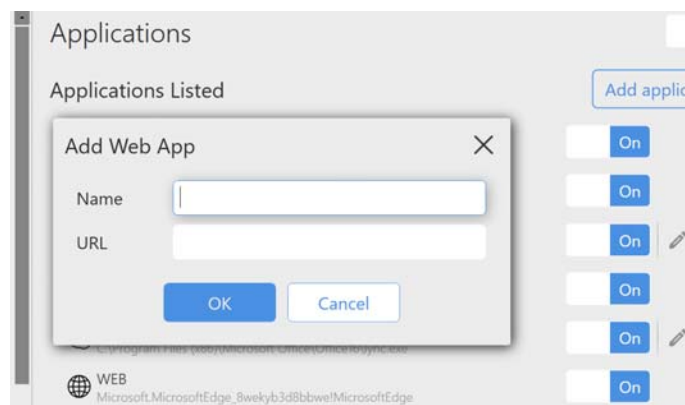


FIG. 29 Acendo Core Settings - Applications - Add a Web App

3. The Web App will now be displayed in the list.

Application Favorites

Up to four favorite apps may be added here that will display their icons on the Home screen left banner (FIG. 32).

NOTE: When changing the Applications Favorites, the tool bar may not reflect the current changes until the Admin user ends session and comes back in.

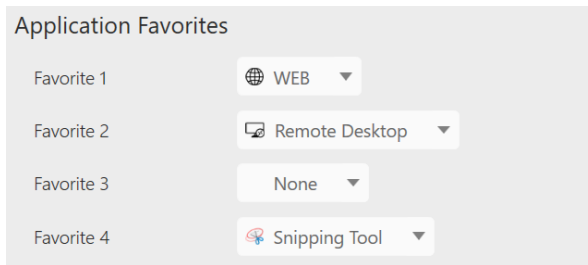


FIG. 30 Application Favorites

1. Click on the Drop Down menu for each of the four favorites and select an application from the installed apps in the list (FIG. 31).

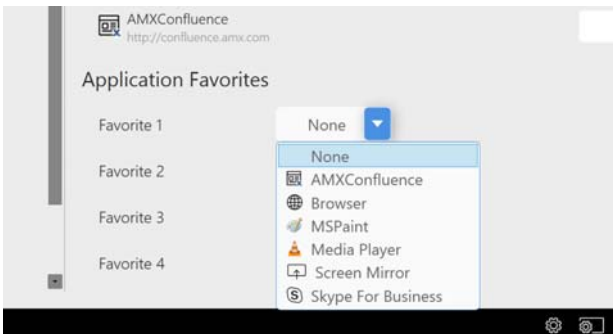


FIG. 31 Acendo Core Settings - Applications - Add a Favorite App

2. The Favorite Application icons are then arranged on the home page as shown in (FIG. 32).

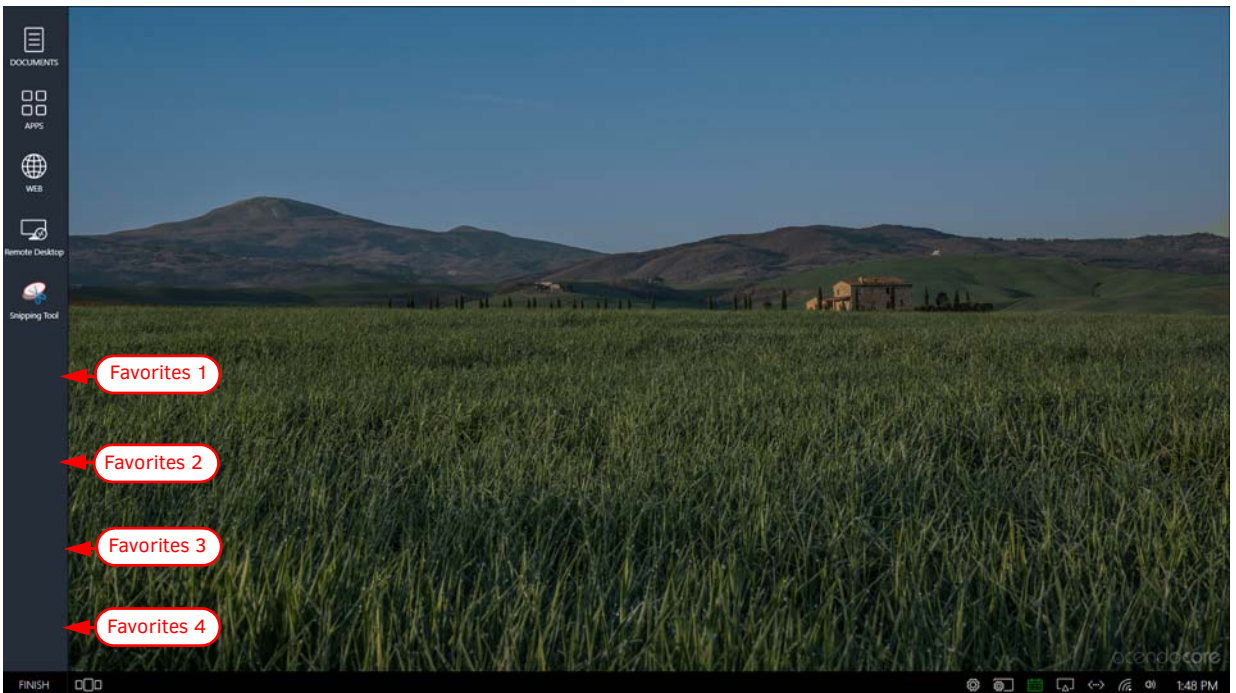


FIG. 32 Acendo Core Settings - Applications - Favorites Icons

NOTE: If a Favorite is skipped, the next Favorite will show in its place on the home screen so no blank spaces are left in between.

Background

The Background tab enables administrators to assign a different image to the Welcome/Home screen.

1. Either drag-and-drop an image to the center of the dotted lines, or browse to select an image that has been saved locally.

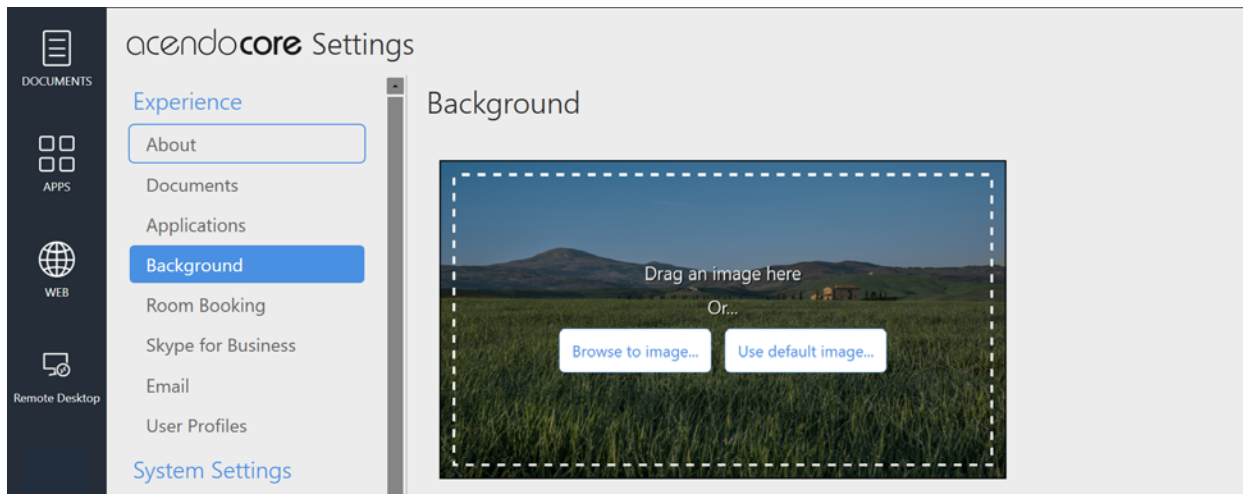


FIG. 33 Acendo Core Settings - Background

Room Booking

The Room Booking tab is where the Administrator will provide vital data to configure the corporate calendar, group this device with other rooms, and set the default scheduling settings. In FIG. 34, Room Booking is switched **Off** (note that Calendar Provider and Room Grouping are grayed out.)

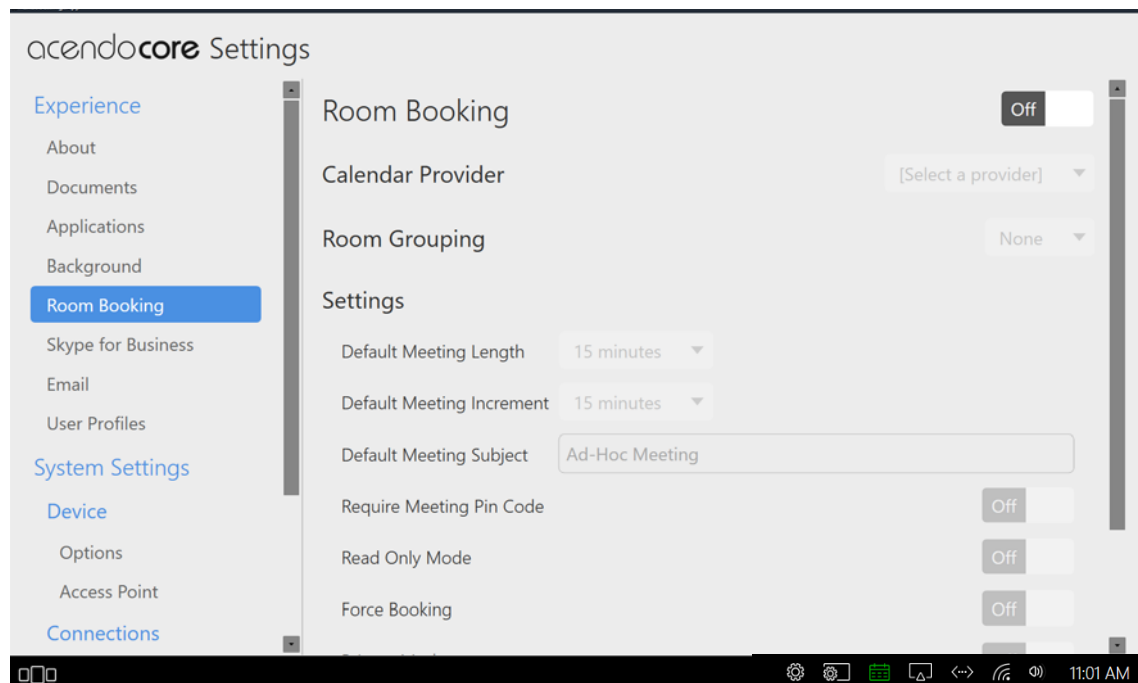


FIG. 34 Acendo Core Settings - Room Booking - Off

2. With the *Room Booking* turned **Off**, the Home screen appears as shown (FIG. 35). Note the lack of a calendar icon.

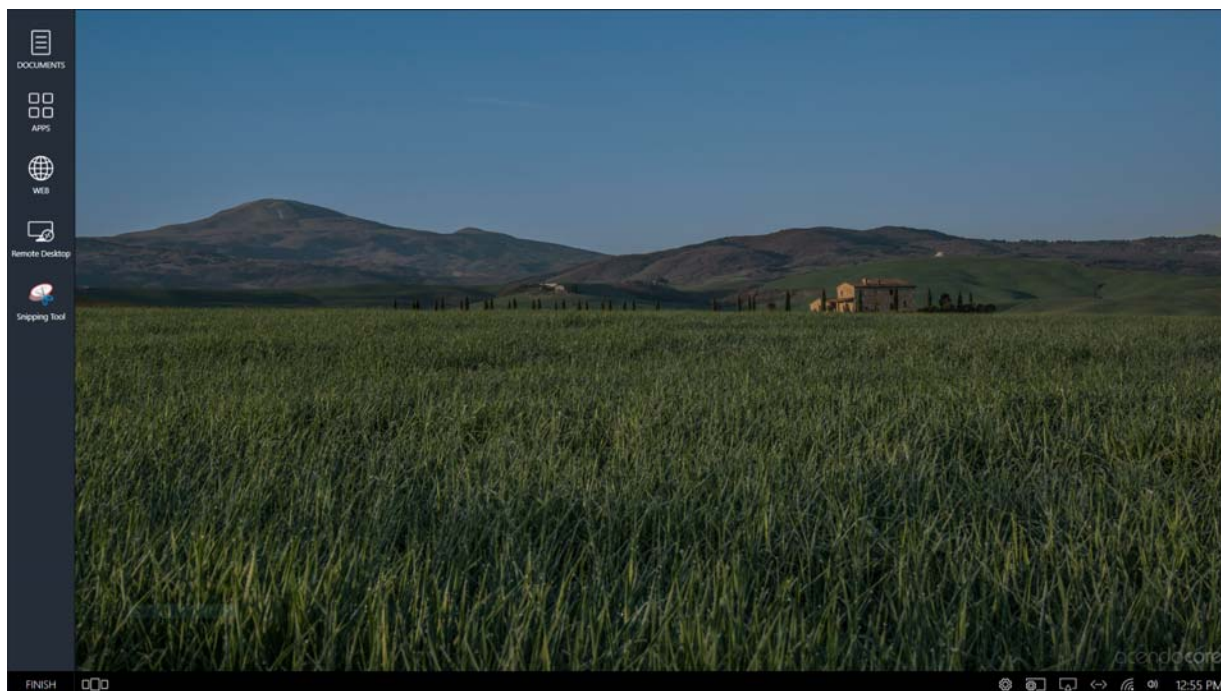


FIG. 35 Home Screen with Room Booking Turned OFF

3. Click on the Room Booking switch to toggle it to **On**. This will take several seconds to complete and new options will appear.

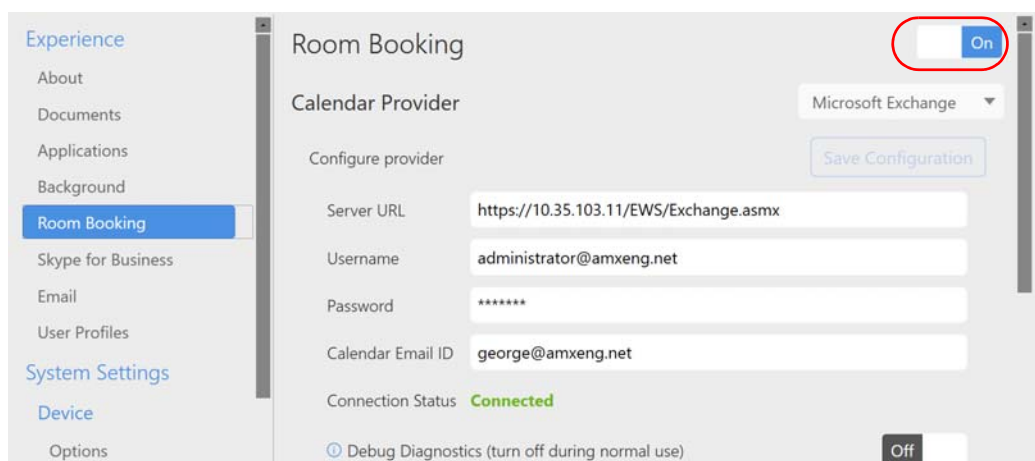


FIG. 36 Acendo Core Settings - Room Booking On Options

Calendar Provider

Enter the following information to configure each Acendo Core user and room for use with Microsoft Exchange / Office 365:

- **Calendar Provider** - Choose from the drop-down list: Microsoft Exchange or Office 365
- **Server URL** - enter the secure URL of the Exchange server

NOTE: The Exchange Server URL should appear as: <https://SERVERNAME/EWS/Exchange.asmx>

NOTE: The default Office 365 Server URL should appear as: <https://outlook.office365.com/EWS/Exchange.asmx>

- **Username** - Enter a valid name for a user with access rights that are appropriate for the room specified in the *Calendar Email ID* field (see below). The Username must include the fully qualified domain name.
– Example: **JaneDoe@acme.onmicrosoft.com**

NOTE: The Username and Calendar Email ID should always be the Full SMTP email address associated with a mailbox: **USERNAME@DOMAIN** and **RESOURCE@DOMAIN**.

- **Password** - This is the password to access the Exchanger server.
- **Calendar Email ID** - Enter the email address for a valid room. The Calendar Email ID must include the fully qualified domain name.
– Example: **ConfRoom1@acme.onmicrosoft.com**

NOTE: The Calendar Email ID field is the only field that is unique to each room: "Provider", "Server URL", "Username", and "Password" are the same across all rooms in the system.

- **Connection Status** - Current status of the Acendo Core connection to the calendar server.
- **Debug Diagnostics** - Used to provide Engineering logging capabilities. Turn the diagnostics **Off** during normal use.

Room Grouping

Room Grouping is optional. Creating a group can alleviate congestion when one device is deemed room grouping a Master and other devices are Members of its group. The Master will poll the server for updates and members will poll the master device which enables them to browse schedules of all rooms in a Group. When a room is occupied, users can browse other rooms and schedule a meeting in any of the rooms in the group.

NOTE: Core devices must have port 8888 open for in-bound grouping communication to succeed. Otherwise requests will be blocked by the firewall.

There is a third option for room grouping, None. This option would only be used if the unit isn't part of a group, typically this would be a boardroom.

NOTE: Acendo Core and Acendo Book can be in the same room group, and if they are, they should be part of the same group.

Configure Master

1. Making the device a Master enables the options shown (FIG. 37).

The screenshot shows the 'Room Grouping' settings page. At the top right, there is a dropdown menu set to 'Master'. Below this, the 'Configure master' section contains the following fields and buttons:

- Master IP/Hostname:** 10.35.92.98, 172.21.88.206, 169.254.99.195
- Username:** admin
- Password:** ****
- Members:** 0 members connected to this Master

Buttons on the right side include 'Save Configuration' (top), 'Edit...' (middle), and 'View members...' (bottom).

FIG. 37 Acendo Core Settings - Room Booking Group Master

2. If desired, enter a new Master Username and/or Password. To change the Password, click on the Edit button.

Configure Member

1. Click on the View Members button to view the other room members for this group. If needed, configure this or other rooms as a Member using the options shown below.
2. Enter the Master device IP address or Hostname.
3. The Connection Status will change to Connected in green once the credentials are entered properly.

Settings

The Settings section allows Administrators to customize the defaults for the room booking on the main screen.

Default Meeting Length

Clicking on the Default Meeting Length will bring up the following options:

- 15 minutes
- 30 minutes
- 1 hour

FIG. 38 Acendo Core Settings - Room Booking Page 2

4. Select a default meeting length from the drop-down list. When a user books the room, the system will block out that period of time (FIG. 39).

NOTE: *If booking a meeting now within the first 5 minutes of the current period, the system will book the remaining time of that period. If booking a room now after the first 5 minutes in this period, the system will book through the current period and an additional 15 minutes interval if the room is available.*

Default Meeting Increment

1. Select a Default Meeting Increment from the drop-down to bring up the following options:
 - 15 minutes
 - 30 minutes
 - 1 hour

This will affect the "Book For" time when booking a room. If the default Meeting Length is 15 minutes and the Default Increment is 1 hour, the booking will increase an hour each time the user increases the meeting time using the arrow button.

FIG. 39 Acendo Core - Book Room

Default Meeting Subject

1. Enter a subject for meetings booked in this room. This can be changed by the user when they book a room as long as *Privacy mode* is turned **OFF**. Users may also leave comments if this condition is met.

Require Meeting Pin Code

If a conference room needs to be set aside for certain users, a Pin Code can be set that requires users to enter it before they can book a meeting.

1. To require a *Pin Code* for this room, click on the switch to toggle it to **ON**. The system provides a 10-key for entering the Pin Code (FIG. 40).

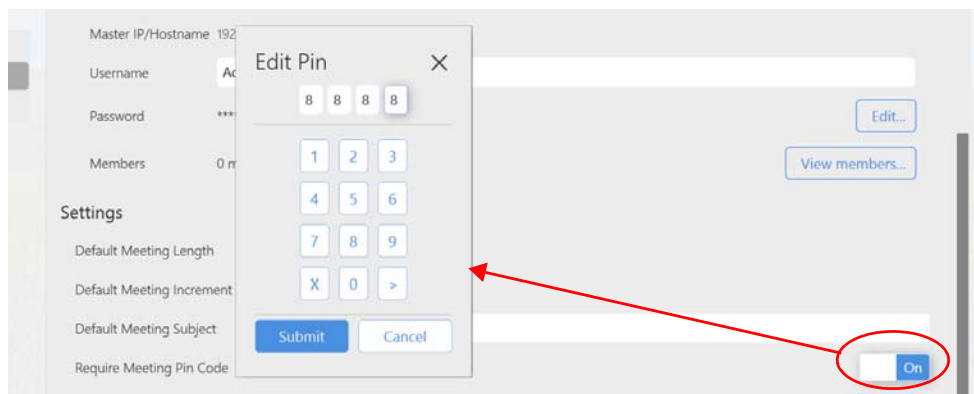


FIG. 40 Admin Settings - Room Booking - Set a Pin Code

2. Enter a 4-digit Pin Code for the room and click **Submit**.
3. Now when a user tries to book the room, they can go through the normal process until they hit *Reserve*. Now the ten key will reappear requiring the code to reserve the room (FIG. 41).

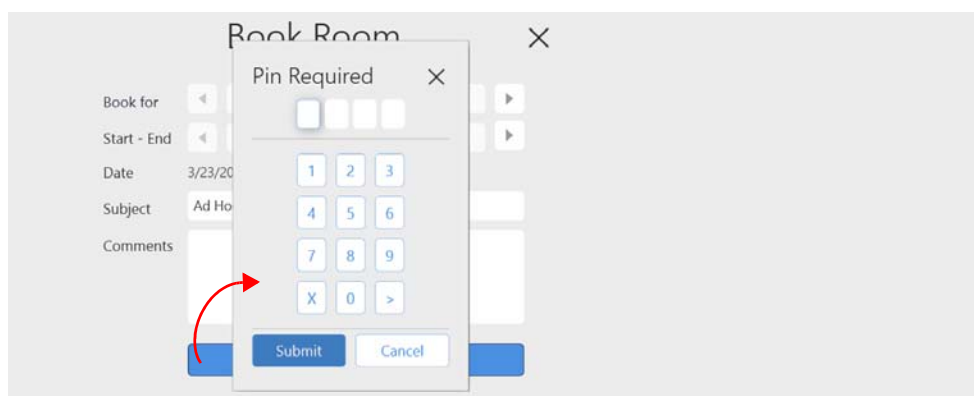


FIG. 41 Acendo Core - Book Room - Pin Required

Read Only Mode

Read only mode is for offices that do not want to book the rooms from the Acendo Core. Users can only use their Outlook interface to book rooms.

1. To make the room Read Only Mode, click on the switch to toggle it to **ON** (FIG. 42).

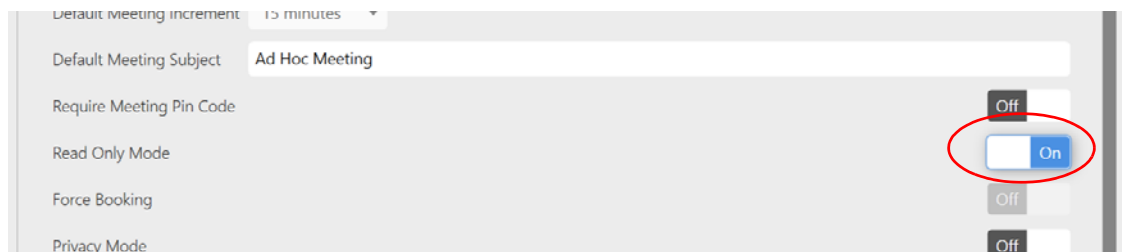


FIG. 42 Admin Settings - Room Booking - Read Only Mode

- Now when users enter a room they will no longer see the *Book Room* options. They may however still *Use Room Now* as shown in (FIG. 43).

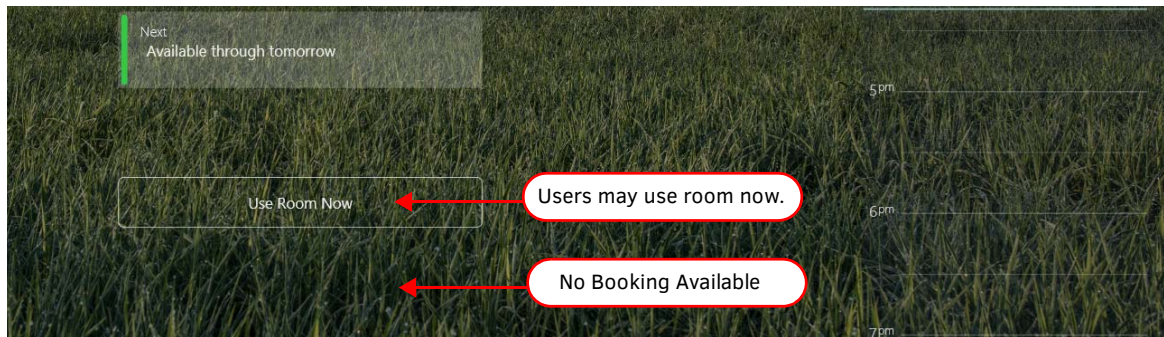


FIG. 43 Book Room in Read Only Mode

Force Booking

In some instances, Administrators may wish to force users to book a room as opposed to using the room without booking it. Reasons to use Force Booking might be for logistics, to determine how often rooms are being booked, etc.

- To enable Force Booking, click on the switch to toggle it to **ON** (FIG. 44).

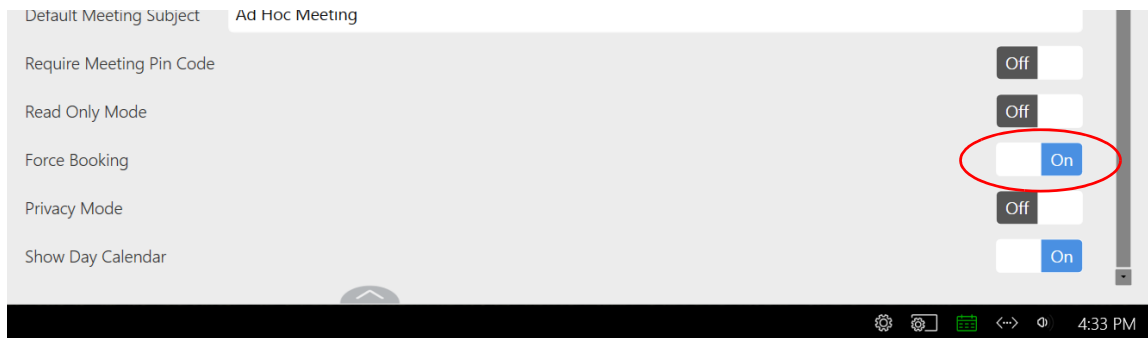


FIG. 44 Force Booking a Room

- The users will see the same screen when they walk into a room, but when they select *Use Room Now*, they will be shown the Book Room Now pop-up requiring them to book the room (FIG. 45).

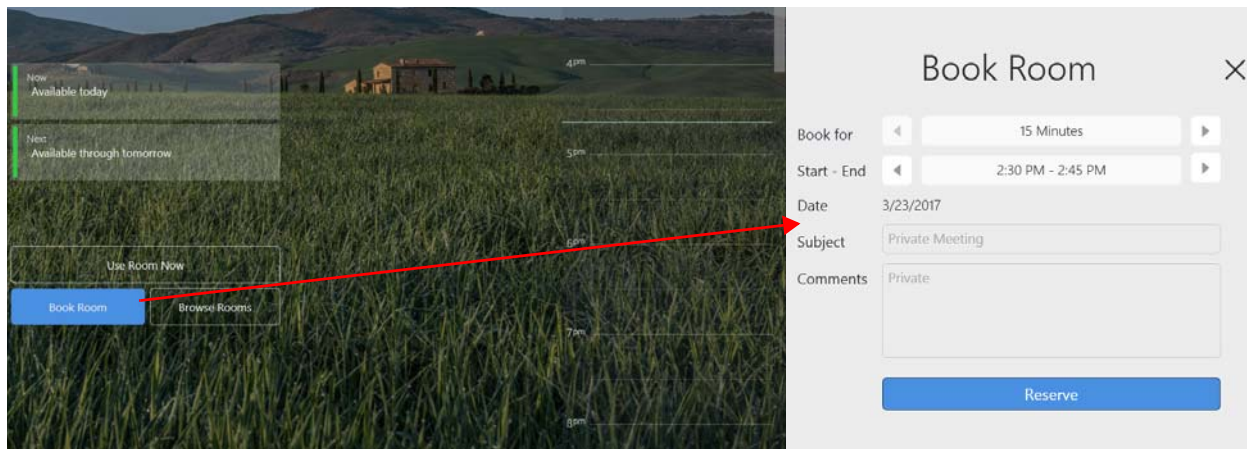


FIG. 45 Book Room in Force Booking Mode

Privacy Mode

Privacy Mode eliminates the users ability to enter a meeting subject or comments, leaving a Privacy Meeting Subject that the Administrator assigns.

1. To make the meetings Private only, click on the switch to toggle it **ON** (FIG. 46).

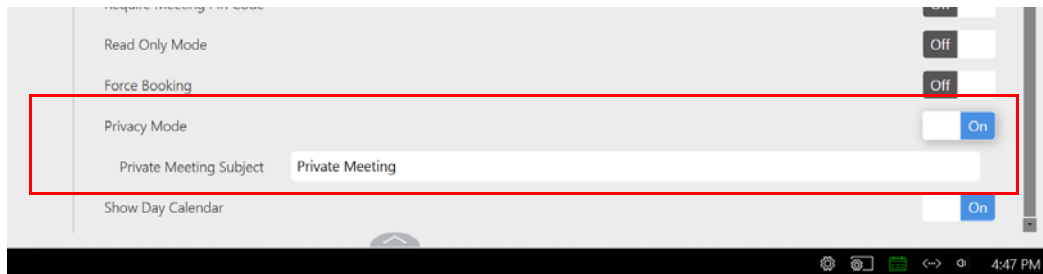


FIG. 46 Privacy Mode

2. A new field *Private Meeting Subject* appears. Enter a subject that all meetings will use, such as Private Meeting (default).
3. Now when users Book a Room, the Subject and Comments are grayed out. (FIG. 47).

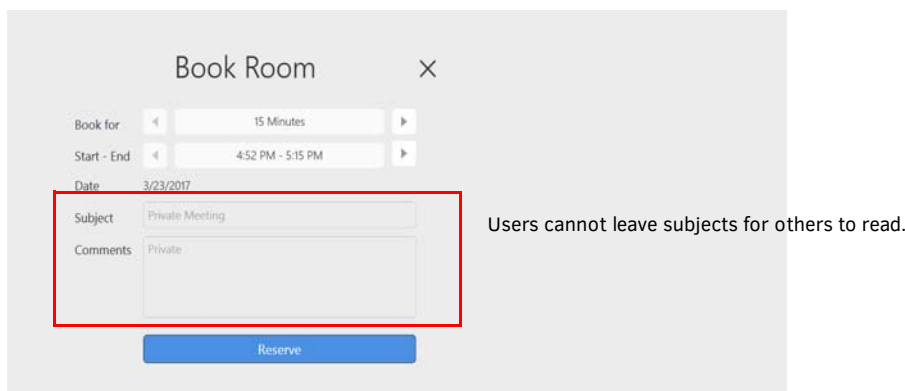


FIG. 47 Book Room in Private Mode

4. Likewise, the main view others will see will just refer to a Private Meeting (FIG. 48).

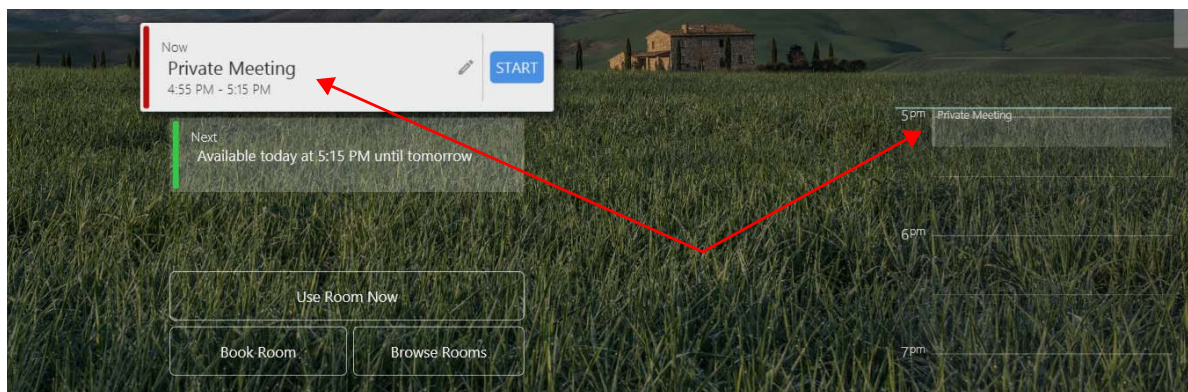


FIG. 48 Main Screen with a Private Mode Meeting

Show Day Calendar

The Day Calendar provides up to a 48hr view of today and tomorrow. It is on a slider on the right side of the main screen (FIG. 49). It can be disabled using Show Day Calendar.



FIG. 49 Day Calendar View

- To disable the Day Calendar, click on the switch to toggle it **OFF** (FIG. 50).

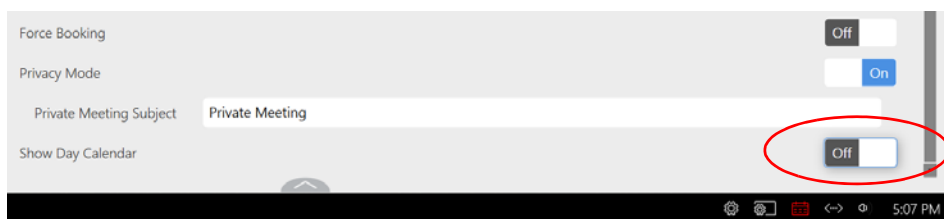


FIG. 50 Room Booking - Day Calendar Enable/Disable

- Now the main screen is clear of the calendar (FIG. 51). Calendar can also be toggled on/off by clicking on the icon shown.

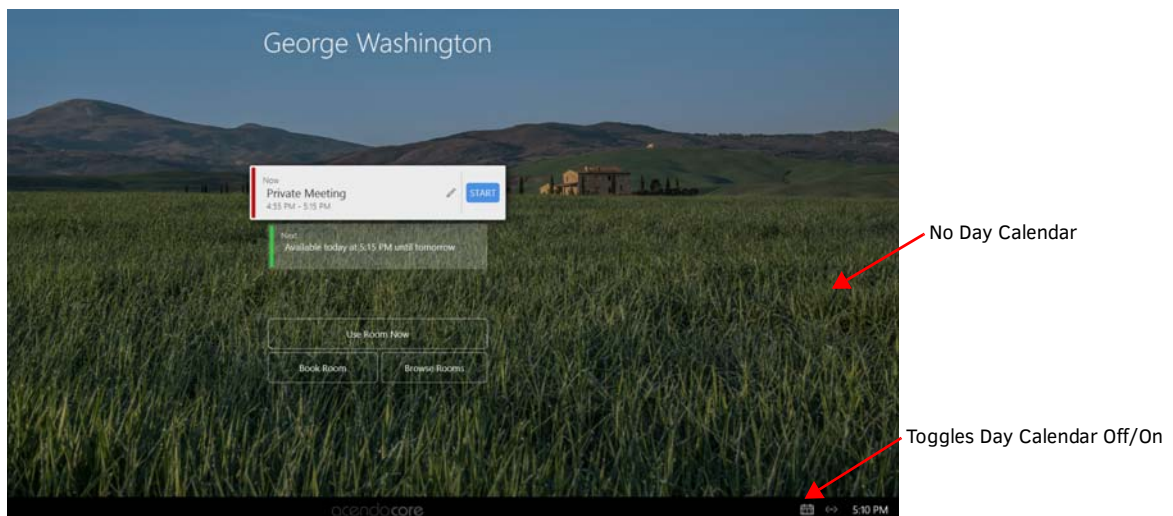


FIG. 51 Main Screen without Day Calendar

Skype for Business

Use the Skype for Business settings to configure how the meeting room handles Skype calls.

Acendo Core supports One-Click Meeting Start for the following web conferencing systems:

- Skype for Business (on-premise where the server is maintained locally by the company using it)
- Skype for Business (Office 365, off-premise where the server is maintained off-site by someone the company has contracted with)
- For a list of ports Skype For Business uses, refer to the "client" section of :

<https://technet.microsoft.com/en-us/library/gg398833.aspx?f=255&MSPPErrors=-2147217396>

Prerequisites

This procedure assumes that existing Skype account logins exist for the room. Currently the administrator must enter the full username@domain for Skype for Business to auto discover the SIP address through DNS. It is up to the IT's installation of Skype for Business for what needs to be entered in these fields. Ensure the accounts are in place as follows:

Office365

- Username: [username]@[servername].onmicrosoft.com
- Password: [admin defined]

Exchange

- Username: username@domain
- Password: [admin defined]



FIG. 52 Skype for Business Settings

1. Select the *On/Off* switch to toggle the Skype feature **On**.

One-Click Meeting Join

2. Select *Auto-Start Meeting* to toggle it to *On* so the booked Skype meeting starts the conference automatically.

Sign-in Address

3. Enter the account email address for this room.

Password

4. Enter the account password for this room.

Test Connection

The Skype for Business "Test" button helps Administrators verify entered settings work in our environment. If the Skype for Business client is already running in the background, the button's results may not be completely accurate.

NOTE: Be sure to delete all "Sign In Info" from the Skype for Business Client for the test to be accurate.

5. Click on the settings Icon shown circled in FIG. 53 and select *File – Sign Out* to sign out from Skype for Business.

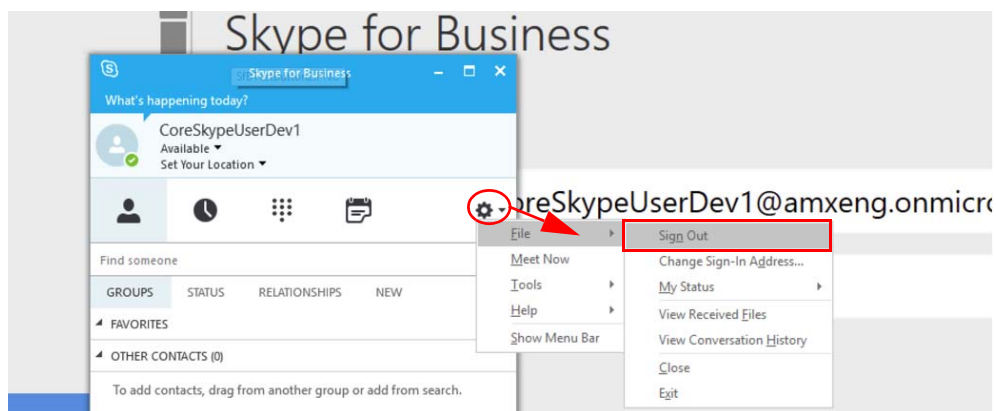


FIG. 53 Skype for Business Test Login Progression

6. Click on *Delete my sign-in info* to delete the user information from the Skype for Business Client (FIG. 54).

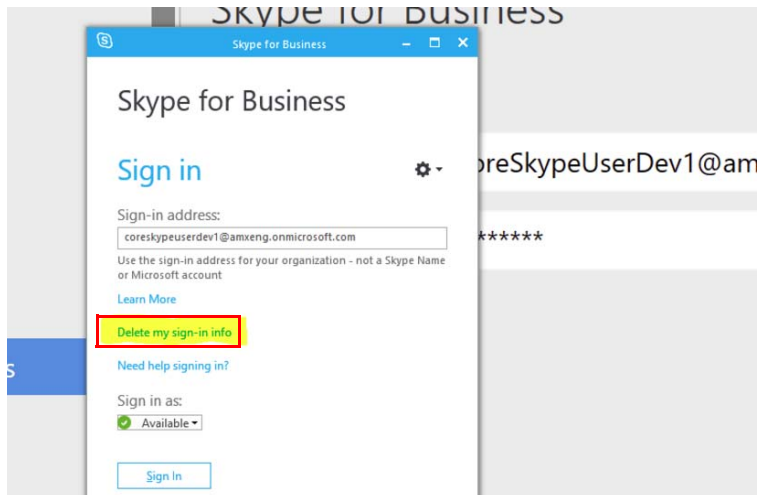


FIG. 54 Skype for Business Test Login Progression

7. Click on *Test* to launch Skype for Business to check the validity of the credentials. The system will go through a progression of windows until it fails and asks for proper credentials or succeeds as shown in FIG. 55.

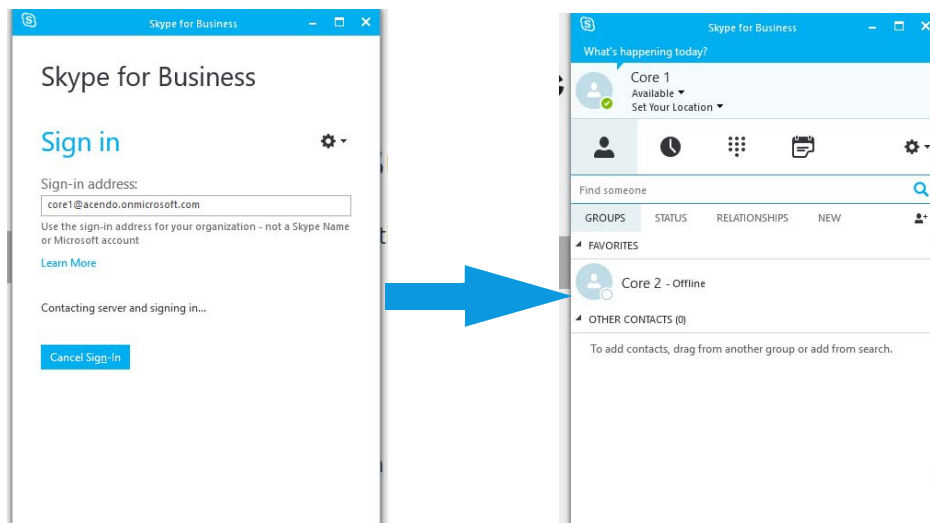


FIG. 55 Skype for Business Test Login Progression

Unexpected Behaviors

- Visually Seeing Wrong Username** - Scenario: If the Admin has recently updated the Skype for Business Sign-in Address, or a domain user logged in as an account other than the Acendo Core's settings in their previous session, the Sign-in address seen in the client will be different than the actual account being signed in. On each new session start, Acendo Core will use its settings to override the previous state of the client, ensuring that the Admin experience is preserved.
Fix: Although a user may be confused, nothing is actually wrong with the system and no ill side effects will result from visually seeing a different sign-in address than the account being signed in.
- Being Prompted To Enter Password To Log-in** - Scenario: At session start, if connection to the Skype for Business server is unavailable, the client will show the password field as blank and awaiting user input.
Fix/Workaround: If the session has a scheduled Skype for Business meeting as its context, a "Start Web Conference" button will be available in the Meeting Status Dialog accessible from the system task bar. Clicking this button when the server becomes available will restart the process of logging in and entering the scheduled meeting.
 If there is no Skype for Business meeting for the session, the user must exit session and re-enter when the server becomes available again.
- Being Prompted For Credentials To Access Address Book** - Scenario: The Skype for Business client has successfully logged in, however when attempting to search for other accounts the user is prompted to re-enter credentials.
Fix: Please search the latest Microsoft documentation to ensure all forwarding addresses have been correctly configured on the domain controller, exchange server, and/or Skype for Business server.
- Early Start to SFB Meeting Can Put User in Wrong Meeting** - In a default Skype for Business installation, the client application attempts login with the Windows profile prior to any other requests. This means domain users who sign into Acendo Core, will be logged into the Skype for Business client under their own account. AMX recommends enforcing Skype

for Business's GPO (Group Policy) setting "Require Logon Credentials" to allow Acendo Core to handle login for all users on the unit. This will unify the experience and have the unit always sign in as the configured credentials provided in the Acendo Core Settings.

- **Domain User SFB Sign-in Overrides Core SFB Sign-in On Log-in** - In some versions of Skype for Business, user accounts are set up with an undesirable default setting for their meeting entry Id. If the option is set to "My dedicated meeting space", every meeting booked by that user will share the same Id, and unintended behavior can occur. We recommended making the default option for all users be "A new meeting space" so that each Skype meeting has a unique meeting entry Id. Follow this (<https://support.office.com/en-us/article/Set-options-for-Lync-Meetings-f628a0fe-6b94-469b-975c-8852a19bddad>) link and reference the section "Where do you want to meet online?" for more information.

Email

Account Settings

Acendo Core can send notification messages to subscribed users via a SMTP server. Use the options on this page to configure your SMTP server and define access credentials (FIG. 56):

FIG. 56 Settings - Email Options

Email Server Page Options	
Email	Click to enable (On) or disable (Off) the SMTP notification provider in the system. Default = <i>Disabled</i> <ul style="list-style-type: none"> • If <i>Disabled</i>, Acendo Core will not send any emails. • If <i>Disabled</i>, the UI will disable all user interface input fields
Server Host	Address/Port: Specify the SMTP server's host name or IP Address / Port assignment. Address and Port are both required to send email notifications: <ul style="list-style-type: none"> • <i>Address</i> - Specify the SMTP server's host name or IP address (default = "email-smtp.us-east-1.amazonaws.com").
Port	Specify the SMTP server's IP port. The .Net SMTP client used in Core only supports Explicit SSL. <ul style="list-style-type: none"> • Enter port 587 (default)
From	Specify the Email address for this device that the emails will be from.
Encryption	Specify if the SMTP server requires secure communication to send email messages. If no encryption method is required, this option should remain disabled. <ul style="list-style-type: none"> • No Encryption (default port: 25) • SSL the (default port: 465) • TLS (default port: 587), default setting
Authentication	Specify if the SMTP server requires user authentication (Username/Password) to send email messages. <ul style="list-style-type: none"> • On/Off - Enable or Disable Authentication. default = <i>enabled</i> • <i>Username</i> - If SMTP communication requires user authentication, this field is used to store the username for accessing the SMTP server. All email communication will be sent using this username account. • <i>Password</i> - If SMTP communication requires user authentication, this field is used to store the user's password for accessing the SMTP server. <p><i>Note: If no user authentication credentials are required, this option should remain disabled.</i></p>
Test Configuration	Click <i>Send Email Test</i> to send a SMTP test message to a specific e-mail address, to test the configured SMTP server settings. See <i>Sending a Test SMTP Email Message</i> on page 32.

Email Server Page Options

Settings	<ul style="list-style-type: none"> • Default Subject - If desired, enter a subject for the title of messages sent from this device. • Default Message - If desired, enter a text string that will show up in each message sent from this device. • Max Attachment Size - If needed, use the drop down options to set a limit on the size of the files that may be sent over the network. Choose from 1 MB, 2 MB, 5 MB, 8 MB, 10 MB, 25 MB, 50 MB, 100 MB to Unlimited
-----------------	--

Enabling/Disabling Email Messaging

1. Select **Email** under *System Settings* to open the *Email settings* (FIG. 56).
2. Under **Email**, select Off to disable Email Messaging.
By default, **Email** option is On (disabled).
Note that when this option is turned Off, all fields in this page are disabled.

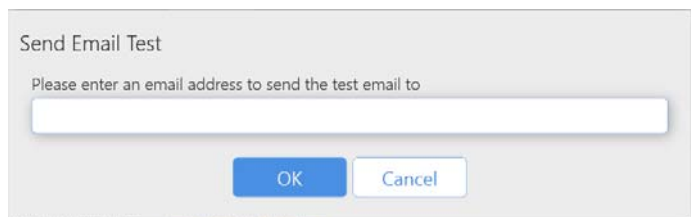
Configuring an Email Server

1. Select **Email** under *System Settings* to open the *Email settings* (FIG. 56).
2. Verify that the **Email** option is On.
3. For **Server Host**, enter the Address of the SMTP server in the text field and specify the port used for SMTP messaging
 - This setting is required to send email notifications.
 - Default = 25
4. For **From** field, enter the email address for this device in the text field
5. For **Encryption**, select either *No Encryption* or *SSL/TTS* (default = *No Encryption*).
6. Under **Authentication**, click in the *On* box to require user authentication in order to send SMTP Email messages.
 - If this option is checked, the *Username* and *Password* text fields are enabled. Enter the username and password that will be required to send SMTP Email in these fields.
 - Default = *disabled*.
7. Enter any default **subject, message** and set the **maximum file size** as approved by the network administrator.

Sending a Test SMTP Email Message

The options under **Email** on this page allow you to send a test SMTP Email message to a specified set of recipients

1. Select **Email** under *System Settings* (FIG. 56).
2. Verify that **Email** is enabled, and that the Names & Addresses are configured correctly.
3. Under **Test Configuration**, click **Send Email Test** to open the *Test Message* dialog (FIG. 57).



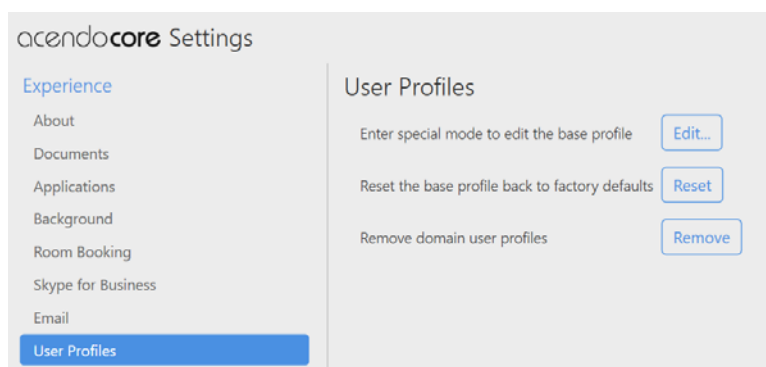
The dialog box titled "Send Email Test" contains a text input field with the placeholder text "Please enter an email address to send the test email to". Below the input field are two buttons: "OK" and "Cancel".

FIG. 57 SMTP Test Message dialog

4. Enter a valid email address for the recipient, and enter the message text.
5. Click **Send** to send the message.

User Profiles

User Profiles (FIG. 58) is used to set up the default apps and appearance for guest users that log into the device, and reset or remove user profiles.



The screenshot shows the "acendocore Settings" interface. On the left is a sidebar menu with options: Experience, About, Documents, Applications, Background, Room Booking, Skype for Business, Email, and User Profiles (which is highlighted). The main area is titled "User Profiles" and contains three settings with corresponding buttons: "Enter special mode to edit the base profile" with an "Edit..." button, "Reset the base profile back to factory defaults" with a "Reset" button, and "Remove domain user profiles" with a "Remove" button.

FIG. 58 Acendo Core Settings - User Profiles

Enter Special Mode to Edit the Base Profile

This action will sign the admin user out and automatically sign in to a special base profile session. This session will either start with the default base profile or with the base profile snapshot created from a previous 'Setup Base Profile' session. From within this session, the admin user can launch applications and configure their settings as desired. Upon exit, they will be prompted to take a snapshot of the profile. If confirmed, the current state of the base profile session will be saved and will become the new initial state for guest sessions and future first login domain user sessions.

1. Click on **Edit** to set up the guest user account view and accessibility. The system will prompt to end the current session. Click **Yes** (FIG. 59).

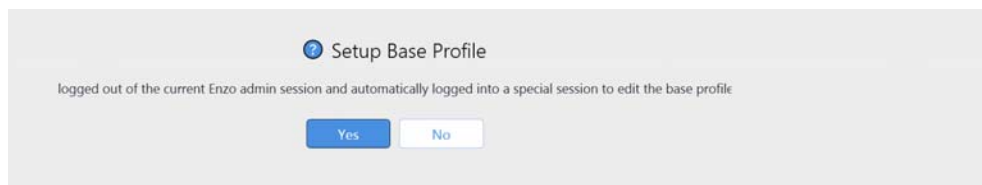


FIG. 59 Acendo Core Settings - Edit User Profiles

2. The system logs out the current session and returns to the Base Profile editing screen. Make changes and add apps that will be accessible to guest users of this device.

Reset the Base Profile Back to Factory Defaults

This action will delete any previously created base profile snapshot, thereby returning the guest profile and any future first login domain sessions to their default state.

1. Click on **Reset** to return the guest user accounts back to defaults.

Remove Domain User Profiles

This action will delete all non-guest and non-Admin profiles, thereby causing them to return to a first login state. Upon login, the account will be initialized with either the current base profile snapshot, if it exists, or the default base profile.

1. Click on **Remove** to clear all user profiles that have logged into the system.

System Settings

System Settings menu is used to set specific Device Options, Access Point configuration options, user and programmer connections, and software update options. Refer to the following subsections for each task.

Device - Options

Use the Options page to change operational behavior for this device (FIG. 60).

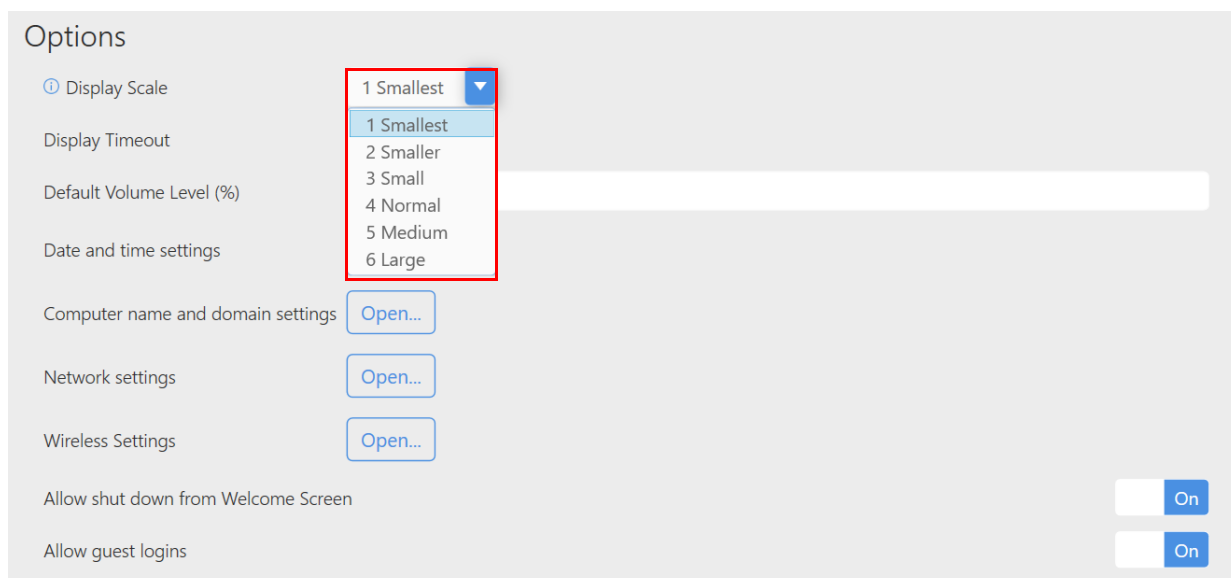


FIG. 60 Device Options - Display Scale

Display Scale

Use the *Display Scale* to adjust the size of the text and icons on the screen. Let the Windows OS choose the display resolution and scaling so these options contain the text "(Recommended)" in their selection (FIG. 61). Windows Scaling is actually called: "Change the size of text, apps and other items". Then make further adjustments using the following steps.

NOTE: AMX recommends using ONLY 720p or 1080p displays to connect to Core.

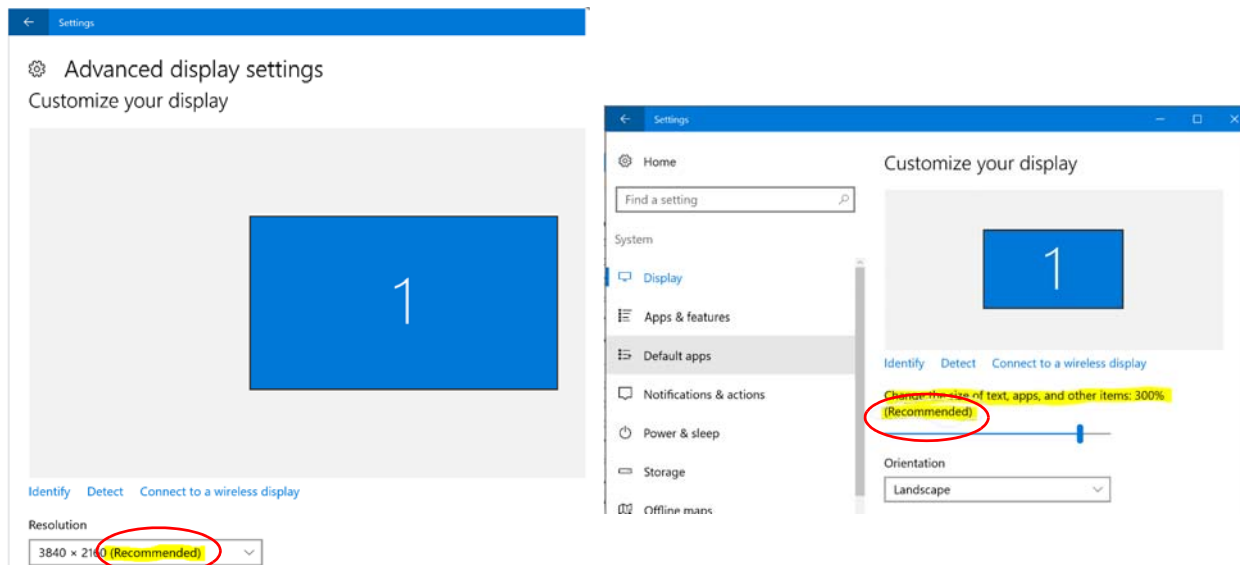


FIG. 61 Windows Recommended Settings

1. Click on the drop down box (FIG. 60) to select larger or smaller scale on the display.
2. To view the changes are appropriate, log out of the current session and log back in.
3. Adjust again as needed until all screen options are comfortably visible on the display.

Display Timeout

The *Display Timeout* option enables Administrators to determine when the Acendo Core terminates the session/turns off the signal to its display after a specified amount of inactivity.

1. Click on the drop down (FIG. 62) to select the period of inactivity before the device terminates the session/turns off the signal to its display. Choose from 5 Minutes up to 2 Hours or None.

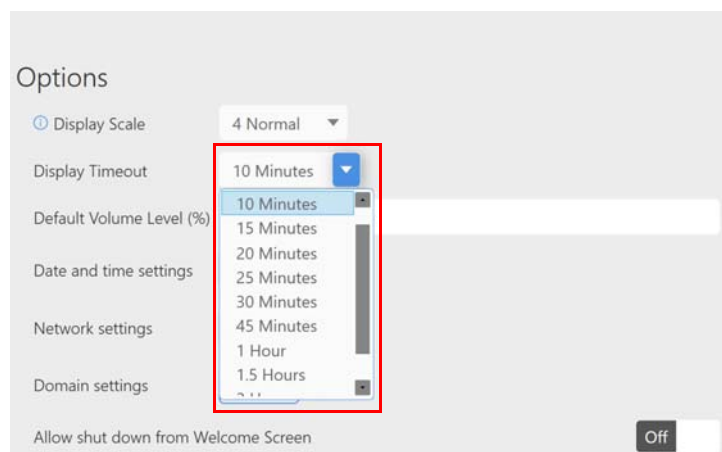


FIG. 62 Device Options - Display Timeout

Default Volume Level

Adjust the percentage of volume level from 0-100% as needed for the space.

Date and Time Settings

Date and Time Settings functions the same as Windows PCs. This link provides a short cut to the Windows configuration.

1. Click **Open** to launch the Windows date and time window (FIG. 63).

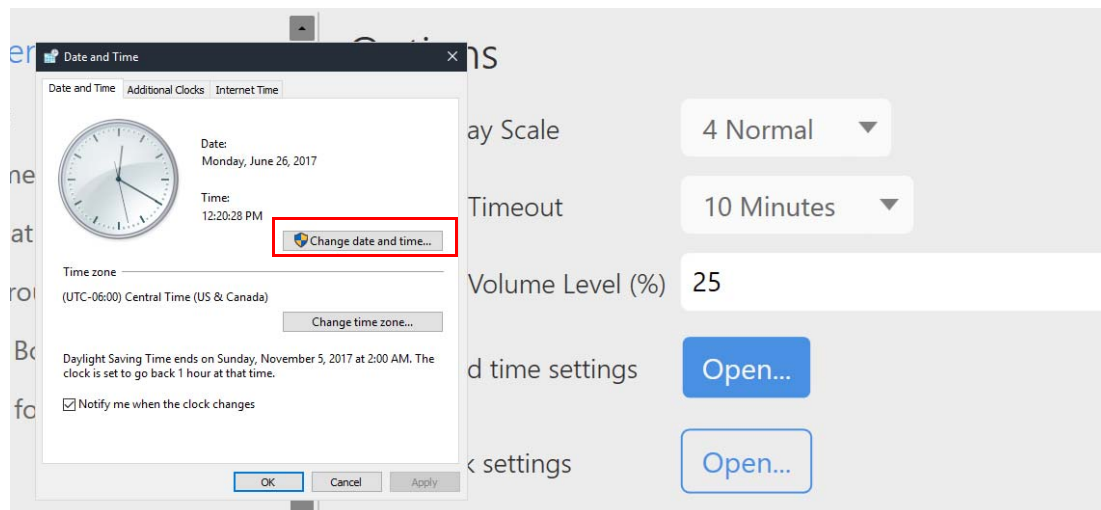


FIG. 63 Device Options - Date and Time Settings

2. To change the date or time, click on the **Change date and time...** button circled above.

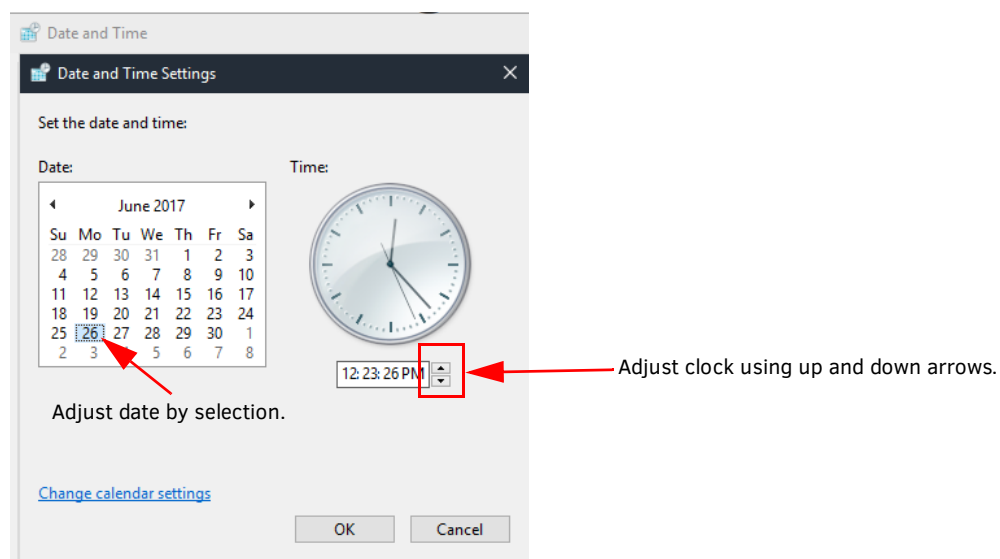


FIG. 64 Device Options - Change Date and Time Settings

3. Adjust the time using the up and down arrows.
4. Adjust the date by selecting the current day on the calendar view.
5. Select **OK** to save the new date and time.
6. Select **OK** to exit the Date and Time Settings popup.

Initial Time Format Steps (12 hour and 24 Hour setup)

1. Sign in as Admin and click on the system time displayed in the lower right corner of the screen (FIG. 65) to bring up the Windows Time settings. Select *Change Date and Time*.

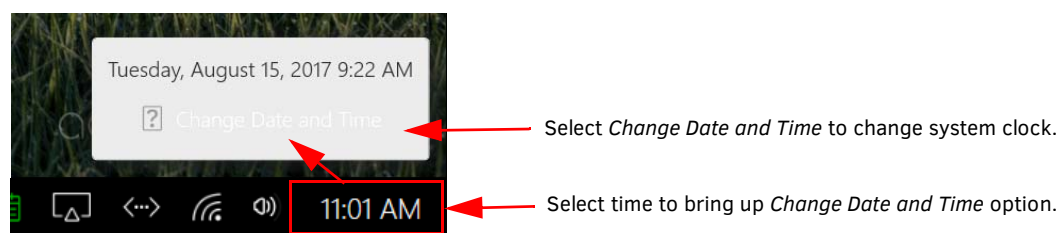


FIG. 65 Access Window Clock Settings

2. The Windows system Date and Time option appears (FIG. 66). Select the *Change date and time* button.

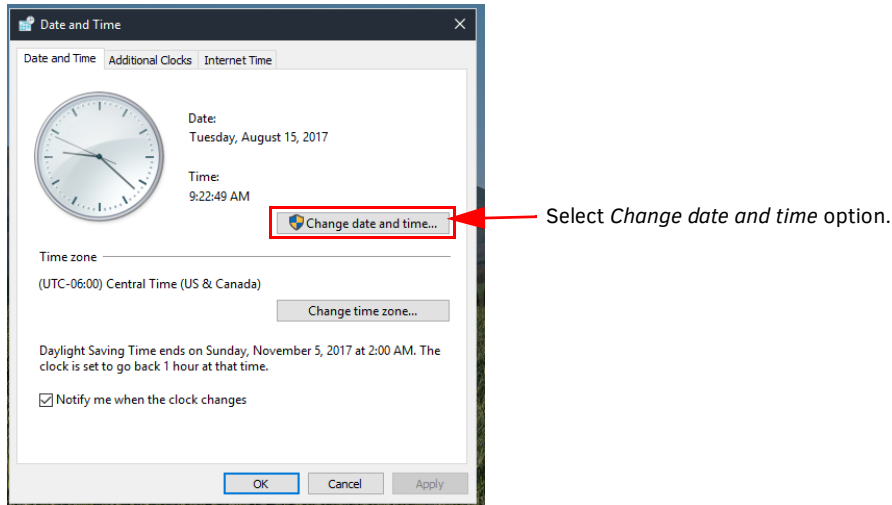


FIG. 66 Change System Date and Time

3. The Date and Time Settings window appears (FIG. 67). Select the *Change calendar settings* button.

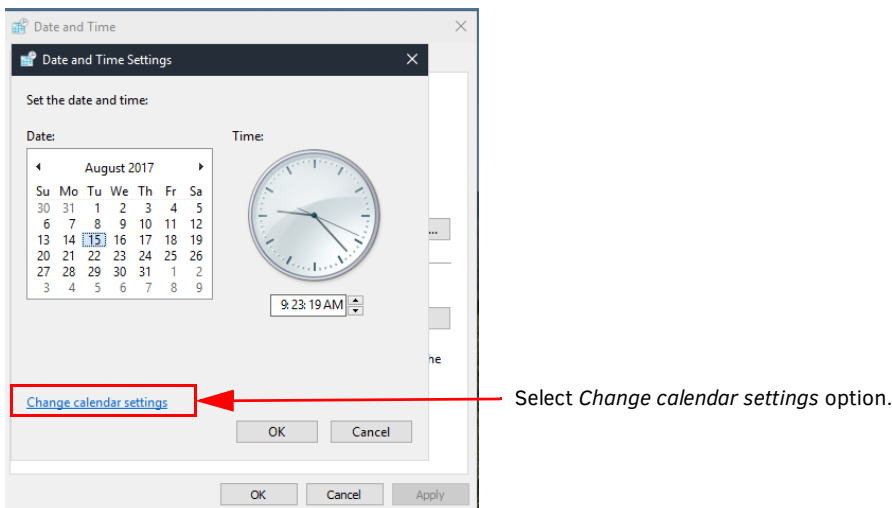


FIG. 67 Date and Time Settings - Change Calendar Settings

- The Customize Format window appears. Select the *Time* tab and change both the Short & Long time formats to the desired formats (12 or 24 Hours).

NOTE: Uppercase *H* for the hour is used for 24 hour format. Refer to the definitions provided on screen.

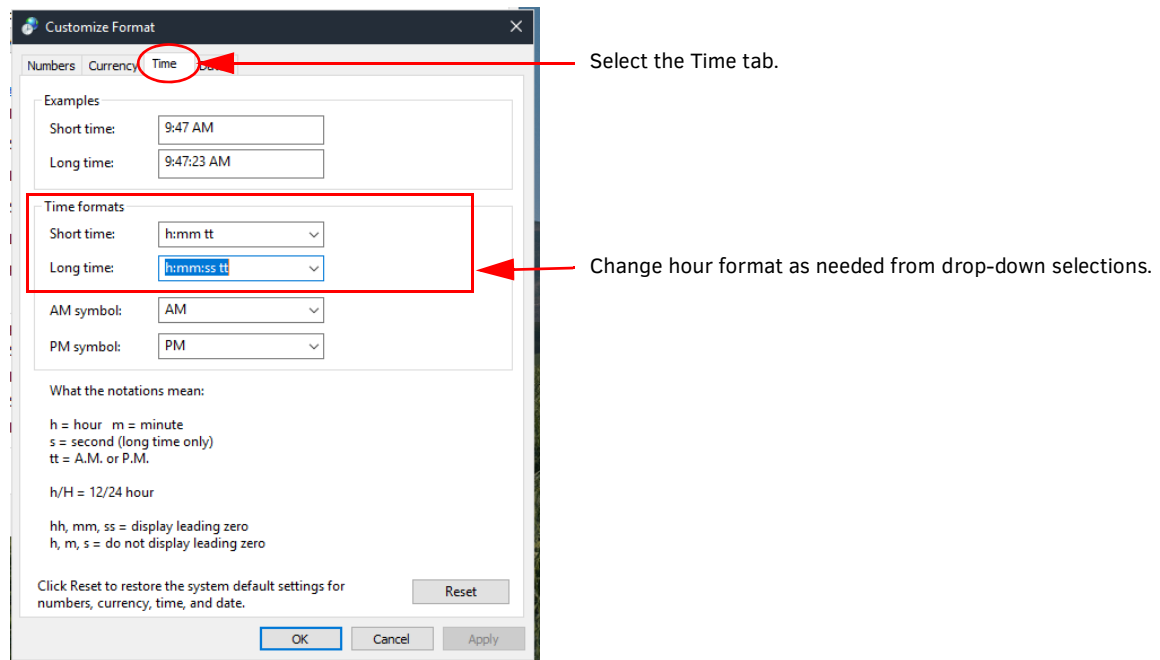


FIG. 68 Change System Date and Time Formats

- Select **OK** to save the changes.
- The Region window is now shown. Select the *Administrative* tab and then "Copy Settings".

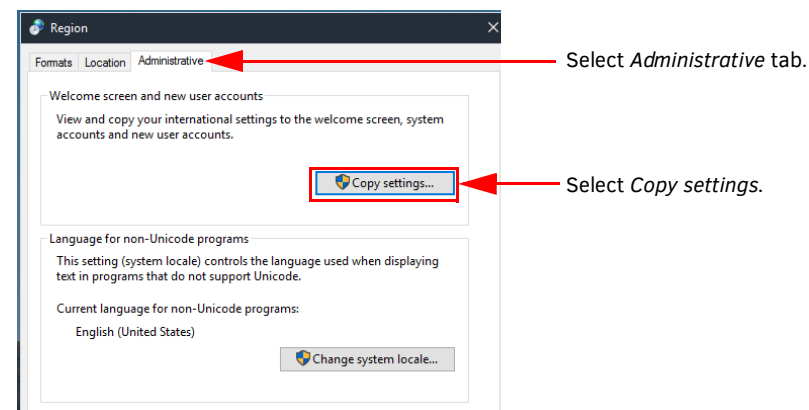


FIG. 69 Change System Date and Time

7. On the next window, make sure to check "Welcome screen and system accounts" as well as "New user accounts" to get the settings visible on login panel & new domain users.

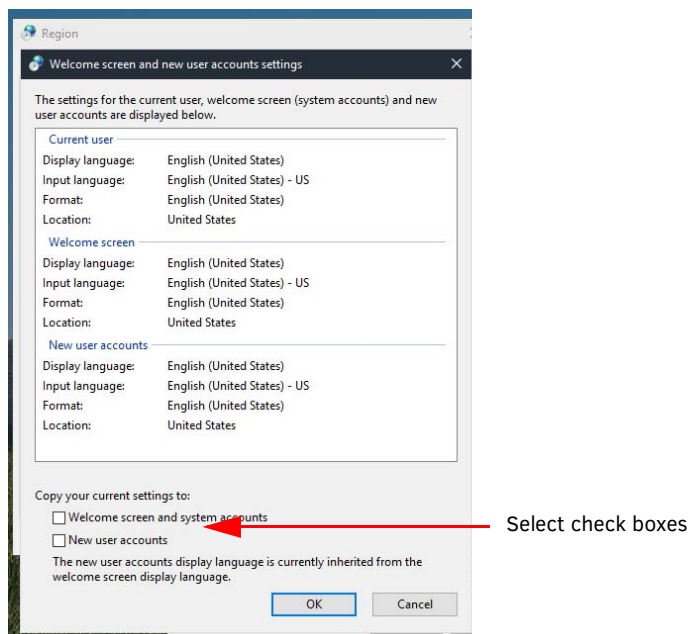


FIG. 70 Change System Date and Time

8. Select **OK** to copy the settings to both account types.
9. Edit the base profile for Guest to set the same time format settings. Refer to *Reset the Base Profile Back to Factory Defaults* on page 33.

NOTE: This step is necessary as the guest profile is already created prior to the Admin logging in to CoreAdmin

10. Repeat Steps 1-4 from this procedure in the Base Profile Setup and save the results.

Now CoreAdmin, CoreGuest, and any future users will have the same time format settings for this Acendo Core unit

11. To force current domain users to get these new changes, "Remove" domain user profiles so they get the new Base Profile Snapshot and the new settings. Refer to *Remove Domain User Profiles* on page 33.

Computer Name and Domain Settings

This provides a shortcut link to the Windows system Properties Computer Name window for custom defining the AcendoCore name (FIG. 72). Configure as needed.

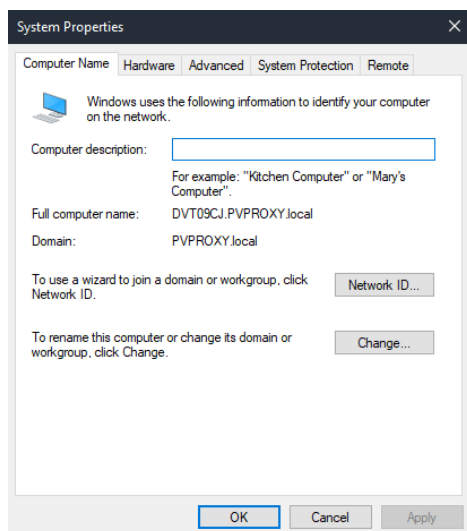


FIG. 71 Device Options - Computer Name and Domain Settings

Network Settings

Network Settings enables Administrators to view and organize device network connections using standard Windows based tools.

1. Click on the **Open** button to launch the Network Connections window (FIG. 72).

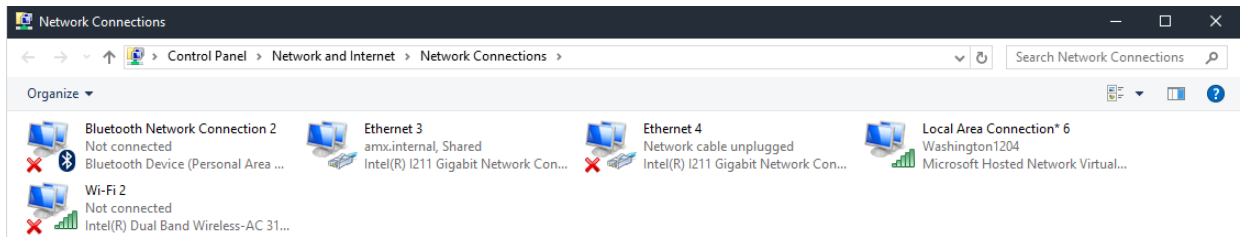


FIG. 72 Device Options - Wireless Settings

Wireless Settings

This link provides a shortcut to the Windows Wireless Settings screen.

1. Click **Open** to launch the Windows WiFi configuration screen (FIG. 73).

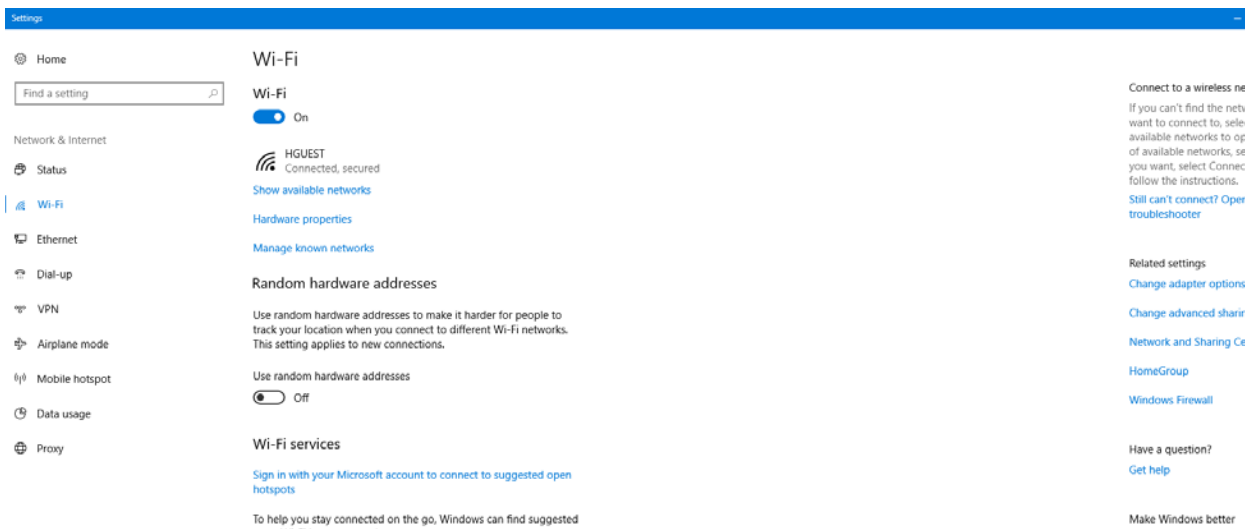


FIG. 73 Device Options - Network Settings

2. Configure as needed.

Allow Shut Down from Welcome Screen

This option enables a system shutdown from the welcome screen when enabled.

1. Click on the switch to toggle it from **Off** (default) to **On** if needed.

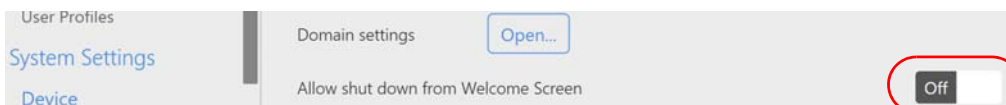


FIG. 74 Device Options - Allow Shut Down from Welcome Screen

Allow Guest Logins

This option will only show on the settings screen when the system is on Domain. It enables Guests to the building to login and use a limited (admin specified) amount of the apps on this device.

- On = Guests users may login and use the device
- Off = No Guests are allowed to login and use the device.

1. Click on the switch to toggle the **On** to **Off** if no guests are allowed to login and use this device..

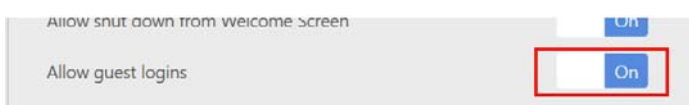


FIG. 75 Device Options - Network Settings

Screen Sharing

The Screen Sharing options turns the Acendo Core into a wireless presentation platform from user devices such as laptops, tablets and cellphones.

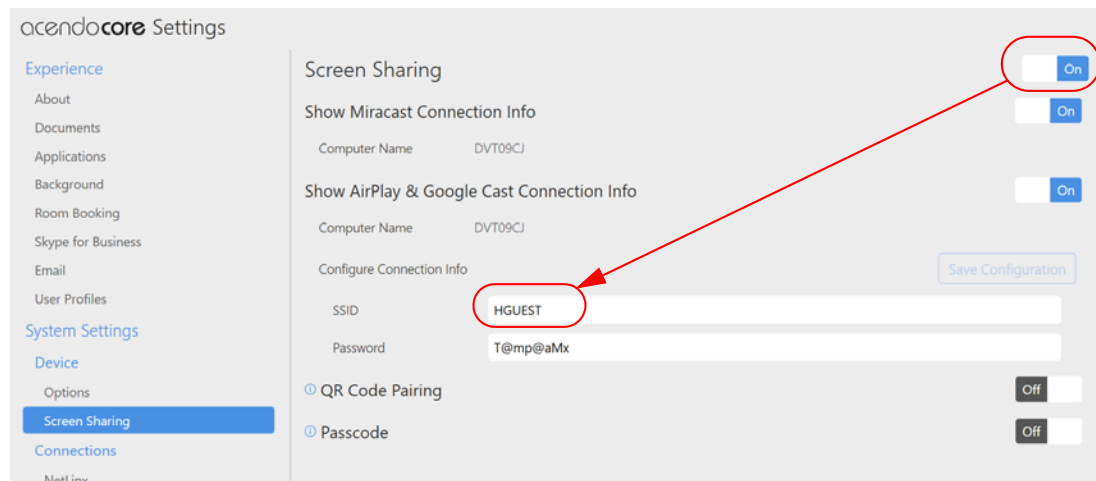


FIG. 76 Device Options - Screen Sharing

1. Click on the *Screen Sharing* switch to toggle it to **On** to make Acendo Core a wireless presentation platform (FIG. 76).
2. Administrators may change the SSID to a custom name that defines the location or room name. Use 32 characters or less.
3. Click in the *Password* field to change the system generated password that will be displayed on screen for users to enter on their devices to connect. If setting a password, it must be at least 8 characters long.

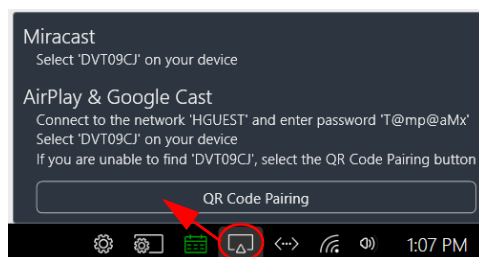
NOTE: To enable Screen Sharing Presenters to access the Internet during their session, Windows must be configured to allow the Active Port (being used for Screen Sharing) to share the Inactive port. This is done through Windows Share Internet Connection settings outlined in the *Share Internet Connection* procedure below.

QR Code Pairing

1. Click on the *QR Code Pairing* switch to toggle it on. This will enable a QR code to be generated for users to scan for connection between their device and Acendo Core during Screen Mirroring sessions.

NOTE: Using the QR Code Pairing requires users to download the *AirServer Connect* app to scan the QR code and start presenting. Video presentation will only be supported on Android devices.

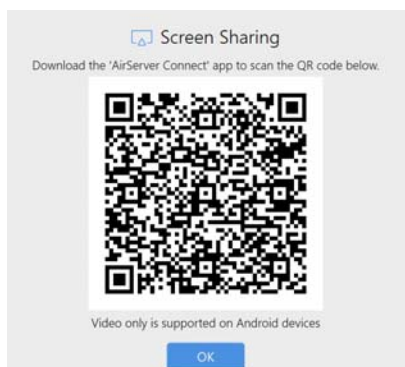
2. When Users click on the Screen Sharing Icon in the System Tools menu, a QR Code Pairing option will now be visible (FIG. 77). Follow the instructions to connect to the network device.



QR Code Pairing option appears to Users when Admin enables in System Settings.

FIG. 77 Screen Sharing and QR Pairing

3. When Users click on the QR Code Pairing option, the following screen appears (FIG. 78).



Follow the instructions to download the AirServer app and use it to scan the QR Code.

FIG. 78 Screen Sharing - QR Pairing

Passcode

1. Click on the *Passcode* switch to toggle it on. This will require users to enter an on-screen 4-digit Passcode into their device when connection to Acendo Core during Screen Mirroring sessions. This feature is supported by both AirServer and Mirrorcast.

Share Internet Connection

To enable Screen Sharing Presenters to access the Internet during their session, Windows must be configured to allow the Active Port (being used for Screen Sharing) to share the Inactive port.

1. Click on the System Shortcut icon at the bottom right tool bar (FIG. 79) and select Windows Settings.

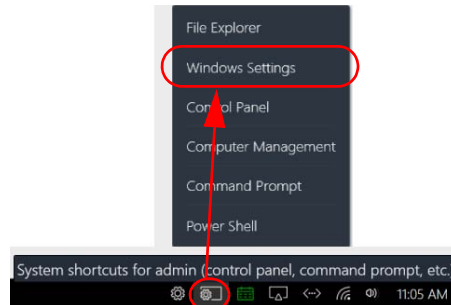


FIG. 79 Acendo Core System Shortcut

2. The Windows Settings screen appears. Select Network & Internet (FIG. 80).

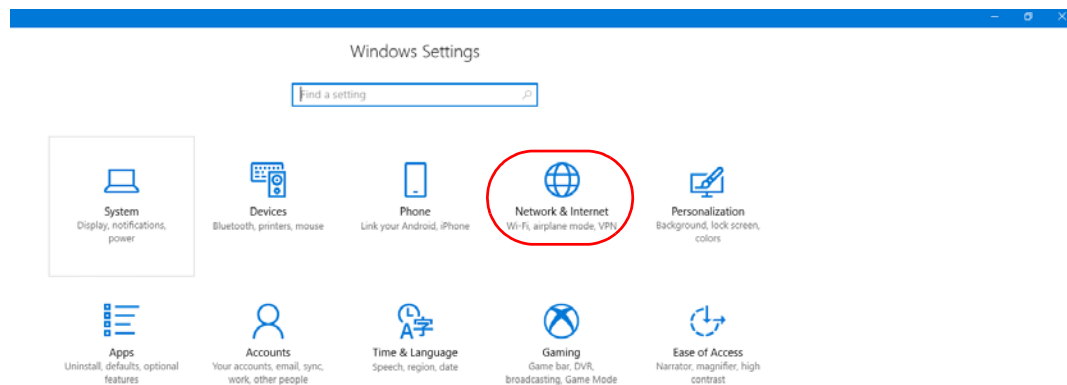


FIG. 80 Windows Settings - Network & Internet

3. The Network Status screen appears. Select Ethernet from the left menu panel (FIG. 81).

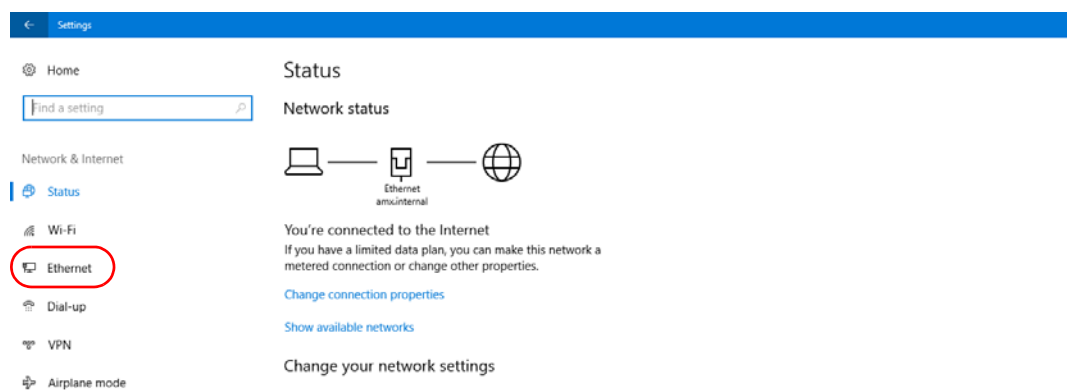


FIG. 81 Network Status Window - Select Ethernet

4. The Ethernet screen appears displaying the available ports and their status (FIG. 82). The Active Ethernet Port will show "Connected". Select the *Change Adapter Options* from the right side menu.

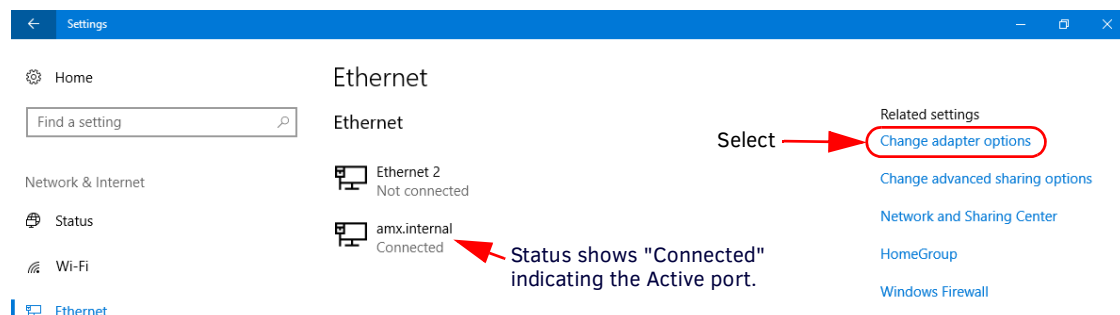


FIG. 82 Ethernet - Change Adapter Settings

5. A list of available Network Adapters in the Control Panel will display (FIG. 83). Select the Ethernet connection that has active status, and choose *Change settings of this connection* as shown.

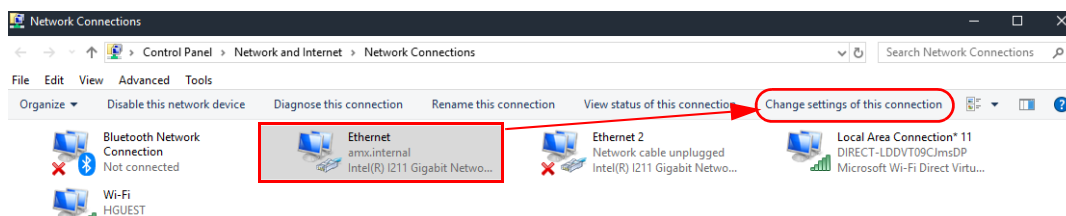


FIG. 83 Acendo Core Network Connections

6. Select the Sharing tab and click on the check-box to enable sharing (FIG. 84).

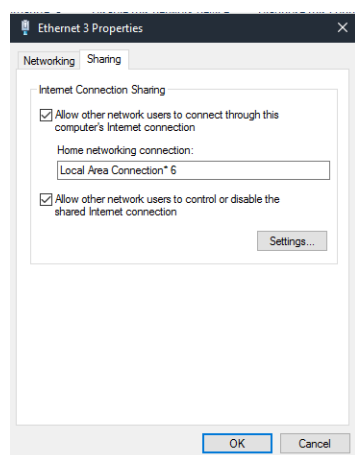


FIG. 84 Ethernet 3 Properties

7. Select the inactive Ethernet port from the drop down menu. This will enable the Active port to share the Inactive Port for Internet access.
- If a "Network Connections (null)" Error is encountered (FIG. 85), select another entry in the drop down.

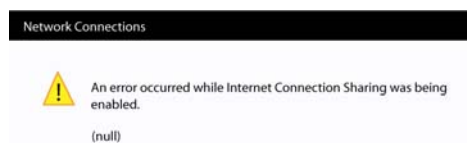


FIG. 85 Network Connections Null Popup

- Hit OK to save and get a successful change.
- Reopen Sharing and select the Access Point again. You may need to check/uncheck the box to see the home network connection drop down again.

For a complete process on using Wireless Presentation with Android or Apple devices, refer to *Wireless Presentation (AirServer)* on page 56.

NetLinx

The NetLinx screen (FIG. 74) displays the network information needed to connect to the NetLinx Master.

FIG. 86 NetLinX Settings

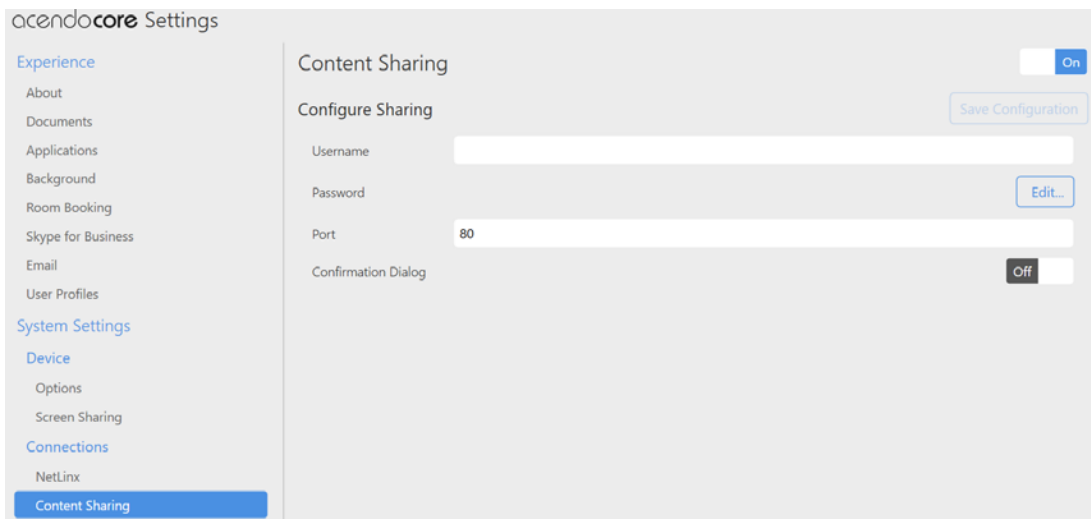
The following table lists the options on the NetLinX screen:

NetLinX Options	
NetLinX	Click on the switch to toggle (On) or (Off) the need for a NetLinX Master. If enabled, this component uses a Java-based ICSP stack (via jni4net Java/.NET bridge, http://jni4net.com/) to maintain a connection with a NetLinX Master. This allows commands, channels, and levels to be sent to the device via NetLinX code, and for feedback from the device to be sent back to the NetLinX Master.
Scan for Masters	This option scans the network for available Masters. Choose from the list of located Masters.
Configure Connection	If any changes are made, this option will become available. Click on Save Configuration to save the new changes.
Mode	Click to select from the drop-down list. Choose from URL , Listen or Auto .
System Number	Enter the system number of the target Master. This option is only available when Mode is set to Auto .
Master IP/URL	Enter the IP address or URL of the target Master. This option is only available when Mode is set to URL.
Master Port Number	Enter the port number of the target Master. This option is only available when Mode is set to URL.
Username	Enter the user name required to log on to the target Master.
Password	Enter the password required to log on to the target Master.
Device Number	Enter the device number of the Acendo Core as defined the Master's code.
Core Device Name	This displays the device name of the Acendo Core.
Connection Status	Indicates the units Ethernet connectivity status as Connected, Disconnected, Unknown or Listening.

Content Sharing

Content Sharing is an AMX app that enables sharing content from AMX Modero X G5 touch panels to display on Acendo Core meeting room presentation systems. With Content Sharing enabled, G5 touch panel users can enter the Acendo Core IP address and connect to Acendo Core and share content from USB or other downloads. Refer to the Modero X G5 Touch Panel Instruction Manuals for details on sharing content with Acendo Core.

The following table details the Content Sharing options:

**FIG. 87** Content Sharing

Display Options	
Content Sharing	This option enables Content Sharing so users can connect and share content from Modero X G5 panels.
Username	Specify a Username for the Acendo Core that users will also need to enter into the Modero X G5 touch panel as a receiver to connect and share content.
Password	Specify a Password for the Acendo Core that users will also need to enter into the Modero X G5 touch panel as a receiver to connect and share content. .
Port	Specify a port on the network to use for data transfer between the Acendo Core and the content sending device.
Confirmation Dialog	Enable (On) to make Acendo Core launch a confirmation window whenever a remote panel tries to share content on Core's display. Click OK to allow or Cancel to deny the content. If left Off, the content will automatically start playing on Core's display.

System - Acendo Core Updates

Use the Acendo Core Updates screen (FIG 88) to update the software version of this device, read the current version or release notes, and set the device up for automatic updates.

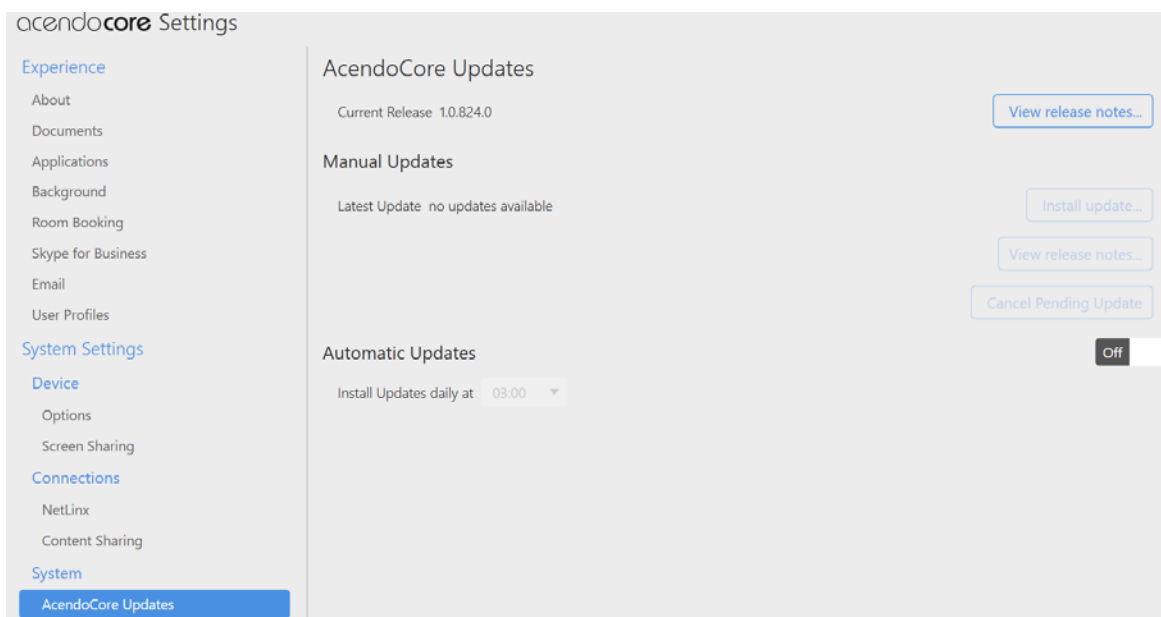


FIG. 88 Updates

Current Release

1. The current release is shown circled in FIG. 88. Click on View Release Notes for information on this load (FIG. 89).

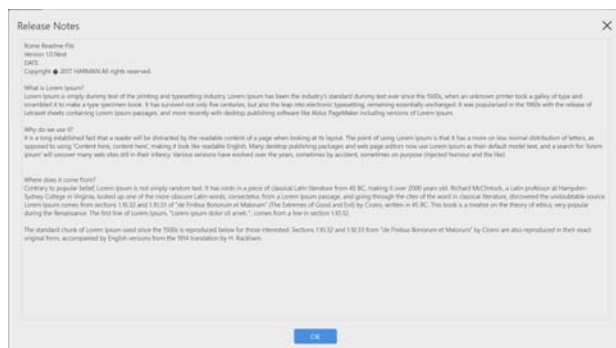


FIG. 89 Release Notes

Manual Updates

1. Under Manual updates, Administrators can see the latest version available and read the release notes prior to loading the update.
2. Click on **Install update** to start loading the new software. FIG. 90 pops up.

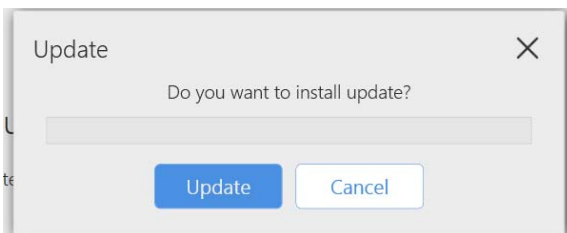


FIG. 90 Update Confirmation

3. Click **Update** to load the new software onto the device.

Automatic Updates

1. Click on the Automatic updates switch to toggle it On or Off.
 - On - System will automatically update software when it is available at the time specified by the administrator using the new daily update time field displayed when "On" was selected (FIG. 91).

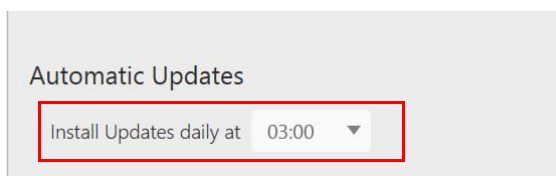


FIG. 91 Setting Automatic Updates

- Off – Admin will need to periodically check for new versions and upload to keep the device current.

NOTE: Harman (AMX) software updates take place at the scheduled time if no session is currently active. If a session is active, the upgrade will be deferred to after the session logout/expiry. Software updates will be applied silently in the background and a reboot will take place after the software update installation is complete.

Import/Export

Use the Import/Export screen to return the device to factory settings, and import or export the current settings as a data file (.dat).

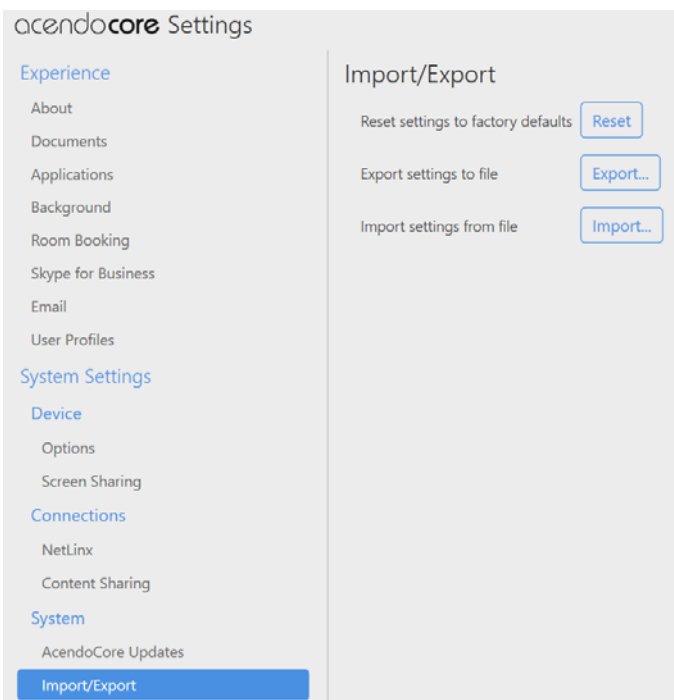


FIG. 92 Import/Export Settings

Reset Settings to Factory Defaults

1. Click on the **Reset** button to return this device back to its factory settings.
2. The system responds with the following confirmation (FIG. 97):

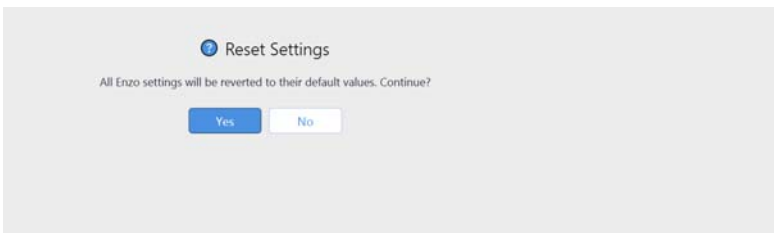


FIG. 93 Reset Settings Confirmation

3. Click **Yes** to reset the device or **No** to return to the Import/Export screen options.

Export Settings to File

1. Click **Export** to save the system settings to your local drive as a data file (.dat).
2. The system requires a user defined password (FIG. 94). Enter a password and click **OK**.

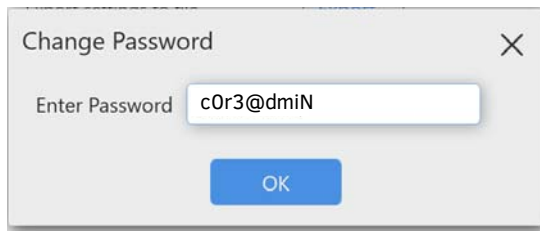


FIG. 94 Export Password Confirmation

3. The system prompts for a File Name and Location (FIG. 95). Enter those and click **Save**.

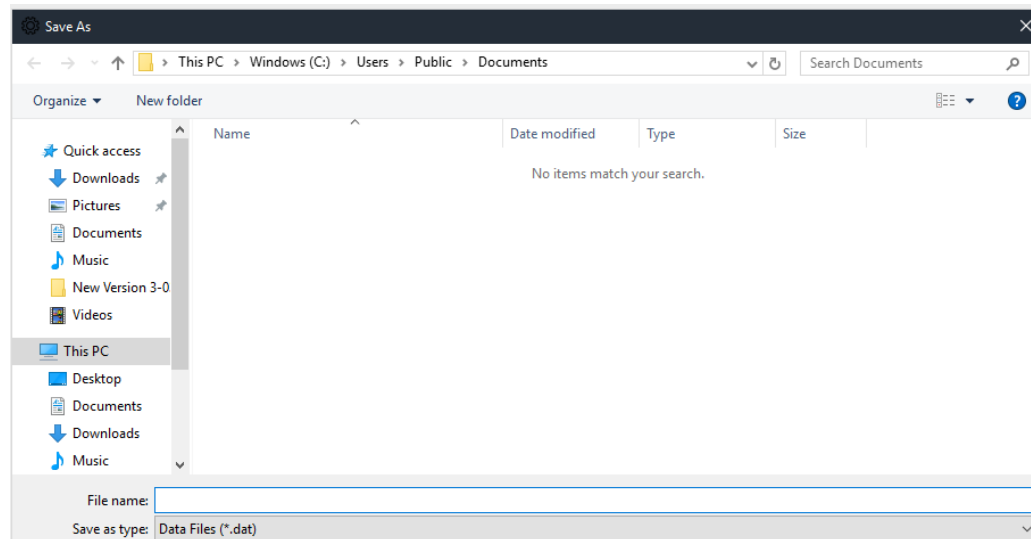


FIG. 95 Export File Location and Name

4. Once the file is saved the system responds with a confirmation (FIG. 96).

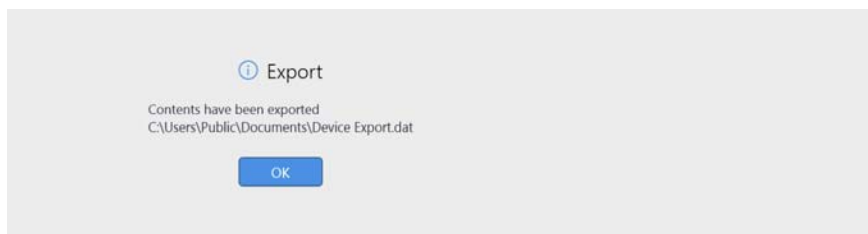


FIG. 96 Export Completion Confirmation

Import Settings From File

1. Click on the **Import** button to select a data (.dat) file to import.
2. The system requires a user defined password. Enter a password and click **OK**.



FIG. 97 Import Password Confirmation

3. The system prompts for a File Name and Location (FIG. 98). Enter those and click **Open**.

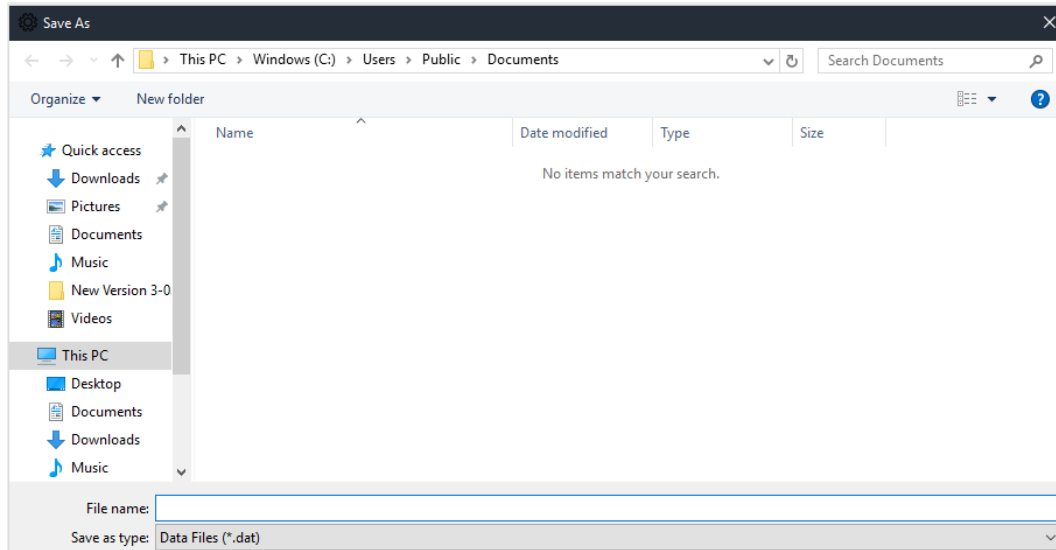


FIG. 98 Export File Location and Name

4. Once the file is imported the system responds with a confirmation.
5. Click OK to confirm.

System Recovery and Backup

There are several options for recovery solutions. To be the most flexible, we recommend Administrators follow their own company's guidelines for backups and recovery. Once a unit is fully configured, create a backup and store it in an external source.

Exchange/Office 365 Set Up

Introduction

The following document provides a recommended path for resources to communicate with Exchange 2013/2016 or Office 365 servers. Although other configurations are supported, we recommend Impersonation for all accounts associated with Acendo Core communication. See 'Why Impersonation is recommended for Exchange/Office 365' for more details.

Acendo Core Service Account

The Acendo Core Service Account on the Exchange or Office 365 server must meet the following requirements:

- The account must have an associated Exchange Mailbox.
- The account information entered here must match the account information for the Acendo Core Service Account (as entered in the Admin Settings (see page 17).
- The account must have rights to add, modify, and cancel/delete appointments in each Exchange Room Mailbox with which Acendo Core will synchronize. This may be accomplished via any of the following three methods:
 - Delegate access to the mailbox
 - Impersonate the mailbox owner using Exchange Impersonation
 - Assign full-access permissions to the mailbox

Microsoft Exchange / Office 365: Username and Calendar Email IDs

The Exchange 2103/2016 or Office 365 Server requires a unique *Calendar Email ID* for each room. Provider, Server URL, Username, and Password will be the same for all Acendo Core units at an installation. The calendar Provider, Username, Password and Calendar Email ID is entered for each room in the Acendo Core settings Room Booking page (FIG. 99).

acendocore Settings

Experience

- About
- Documents
- Applications
- Background
- Room Booking
- Skype for Business
- Email
- User Profiles
- System Settings
- Device

Room Booking

Calendar Provider

Configure provider

Server URL: https://outlook.office365.com/EWS/Exchange.asmx

Username: JaneDoe@acme.onmicrosoft.com

Password: 12admin34

Calendar Email ID: ConfRoom1@acme.onmicrosoft.com

Connection Status: Not configured

Save Configuration

Calendar Provider, URL, Username and Password fields are the same for all rooms in the Exchange or Office 365 deployment

Calendar Email ID is unique for each room

FIG. 99 SETTINGS > Calendar page (showing sample Calendar information - Exchange/Office 365)

Calendar Provider

Enter the following information to configure each Acendo Core user and room for use with Microsoft Exchange / Office 365:

- Calendar Provider - Choose from the drop-down list: Microsoft Exchange or Office 365
- Server URL - enter the secure URL of the Exchange server

NOTE: The Exchange Server URL should appear as: `https://SERVERNAME/EWS/Exchange.asmx`

NOTE: The default Office 365 Server URL should appear as: `https://outlook.office365.com/EWS/Exchange.asmx`

- Username - Enter a valid name for a user with access rights that are appropriate for the room specified in the *Calendar Email ID* field (see below). The Username must include the fully qualified domain name.
 - Example: `JaneDoe@acme.onmicrosoft.com`

NOTE: The Username and Calendar Email ID should always be the Full SMTP email address associated with a mailbox: `USERNAME@DOMAIN` and `RESOURCE@DOMAIN`.

- Password - This is the password to access the Exchanger server.
- Calendar Email ID - Enter the email address for a valid room. The Calendar Email ID must include the fully qualified domain name.
 - Example: `ConfRoom1@acme.onmicrosoft.com`

NOTE: The Calendar Email ID field is the only field that is unique to each room: "Provider", "Server URL", "Username", and "Password" are the same across all rooms in the system.

- Connection Status - Current status of the Acendo Core connection to the calendar server.
- Debug Diagnostics - Turn the diagnostics **On**

For other Acendo Core set up options, refer to *Acendo Core System Settings* on page 15.

Requirements

- Exchange 2013 ServicePack1 or higher

Microsoft Documentation

The following links provide access to online Microsoft documentation regarding each of these methods for each supported Server OS:

<p>Exchange 2013, Office 365 Exchange 2016, Office 365</p>	<p>Delegating Permissions: http://technet.microsoft.com/en-us/library/jj215781%28v=exchg.150%29.aspx (go to Create a room mailbox > Use the EAC to create a room mailbox) <i>Note: If you selected the option requiring that booking requests are sent to delegates, use this section to select delegates.</i></p> <ul style="list-style-type: none"> • To add a delegate, click <i>Add</i>. On the Select Delegates page, select a user, click <i>Add</i>, and then click <i>OK</i> to return to the New room mailbox page. • To remove a delegate, select the user and then click <i>Remove</i>. <p>Assigning Full-Access Permissions: http://technet.microsoft.com/en-us/library/jj919240%28v=exchg.150%29.aspx</p> <p>Configuring Impersonation: https://msdn.microsoft.com/en-us/library/office/dn722376(v=exchg.150).aspx</p>
--	--

Configuring Exchange Room Mailboxes

The following flags attached to a Room's configuration control how meetings will appear on the Acendo Core. These flags can be modified using the Exchange cmdlet `Set-CalendarProcessing` in an Exchange Management Powershell interface. These choices are applied when a room is invited to a meeting from outside the Acendo Core unit.

Set-CalendarProcessing parameters of particular significance:

- **AddOrganizerToSubject** - Controls whether the Acendo Core Service Account's First & Last name get added to meeting's subject.
- **DeleteComments** - Controls whether the original Body is preserved.
- **DeleteSubject** - Controls whether the original Subject is preserved.
- **RemovePrivateProperty** - Controls whether a meeting's "Sensitivity" is preserved. This meeting property applies the same functionality as "Privacy Mode" within Acendo Core (Please see page X).

Why Impersonation is Recommended for Exchange/Office 365

For Acendo Core, AMX recommends using a single user account, also known as credentials, with permissions to impersonate all resources (rooms) that will be accessed by Core units. Acendo Core uses Microsoft's "streaming notifications" to subscribe to a resource's calendar, and stay up to date with the calendar's status. This removes the need to poll continuously and is Microsoft's own recommendation for applications such as this. For Exchange and Office 365, the server enforces limitations of access to help prevent intentional and unintentional high traffic scenarios. This limitation is governed by tickets associated with each Mailbox or Email Address. For example, Office 365 may only allow 10 tickets to be allocated per credentials, so only 10 end points can subscribe to an accounts calendar at a time, making the 11th ticket receive reduced or no access. Impersonation allows us to move which Mailbox a connection gets charged against, ultimately giving us more flexibility and less maintenance. With Impersonation, the connection ticket is charged against the resource's allotment instead of the credential's. This allows all Rome units installed at a site to use the same set of credentials, connect to a larger amount of resources, and not conflict with Microsoft's throttling limitations.

Other configurations for credential to resource access include Full Access and Delegation. Full Access is the most common configuration but each connection is charged against the credential's Mailbox, meaning every unit past the allotment will put unnecessary strain on the server. Although Rome will do its best to communicate and stay up to date with a calendar's status, using these configurations at any site greater than 10 units will result in Acendo Core reporting errors in communication. An installer may choose other routes to get around these limitations such as credentials per group set, but we've found our recommendation is the easiest to maintain when topology of a site changes.

Creating Room Mailboxes

Overview

Exchange 2013, 2016 and Office 365 use *Room Mailboxes* to manage meeting room schedules. Each location (meeting room) that will synchronize with the Microsoft scheduling application (Exchange / Office 365) must be represented by a Room Mailbox.

NOTE: *Appropriate administrator access is required to perform these tasks.*

Creating a New Room Mailbox: Exchange 2013 and Exchange 2016

1. Log in to the exchange Admin Center (EAC):
<https://<ip address of Exchange server>/ecp>
 - or -
<https://<host name of Exchange server>/ecp>
 - a. Provide your credentials to log into Exchange.
 - b. The Exchange Admin Center opens in your browser window.
2. Under *Recipients*, select **Resources**.
3. In the *Resources* page toolbar, click the **Add (+)** button then select **Room mailbox** to open the *New Room Mailbox* dialog.
4. Fill in the fields, and click **Save** to create the new mailbox and close the *New Room Mailbox* dialog.

NOTE: *The only required fields in this dialog are Room name and Email address.*

The new room should now be included in the list of Resources (on the *Resources* page).

5. Select the new mailbox and click **Edit** to open the *Room Mailbox* dialog. Use the options in this dialog to configure the new room mailbox.
6. Select **Booking Delegates**.
7. Under *Booking requests*, verify that **Accept or decline booking automatically** is selected (the default setting).
8. Click **Save** to save changes and close the *New Room Mailbox* dialog.

Repeat this process for each RMS Location that will synchronize with RMS.

Additional Documentation

For more detailed information on creating a room mailbox, creating a room list and changing room mailbox properties in Exchange 2013, refer to the Microsoft® article "Create and manage room mailboxes":

<http://technet.microsoft.com/en-us/library/jj215781%28v=exchg.150%29.aspx>

For more detailed information on creating a room mailbox, creating a room list and changing room mailbox properties in Exchange 2016, refer to the Microsoft® article "Create and manage room mailboxes":

[https://technet.microsoft.com/en-us/library/jj215781\(v=exchg.160\).aspx](https://technet.microsoft.com/en-us/library/jj215781(v=exchg.160).aspx)

NOTE: *These articles also provide instructions on using the Exchange Management Shell to create room mailboxes and room lists.*

Creating a New Room Mailbox: Office 365

1. Log in to the Exchange Admin Center (EAC):
<https://outlook.office365.com/ecp/>
 - a. Provide your credentials to log into Office 365.
 - b. The Exchange Admin Center opens in your browser window.
2. Under *Recipients*, select **Resources**.
3. In the *Resources* page toolbar, click the **Add (+)** button to open the *New Room Mailbox* dialog.
4. Fill in the fields, and click **Save** to create the new mailbox and close the *New Room Mailbox* dialog.

NOTE: *The only required fields in this dialog are Room name and Email address.*

The new room should now be included in the list of Resources (on the *Resources* page).

5. Select the new mailbox and click **Edit** to open the *Room Mailbox* dialog. Use the options in this dialog to configure the new room mailbox.
6. Select **Booking Delegates**.
7. Under *Booking requests*, verify that **Accept or decline booking automatically** is selected (the default setting).
8. Click **Save** to save changes and close the *New Room Mailbox* dialog.

Repeat this process for each RMS Location that will synchronize with RMS.

Additional Documentation

For more detailed information on creating a room mailbox, creating a room list and changing room mailbox properties in Office 365, refer to the Microsoft® article "Create and manage room mailboxes":

<http://technet.microsoft.com/en-us/library/jj215781%28v=exchg.150%29.aspx>

Note that this article also provides instructions on using the Exchange Management Shell to create room mailboxes and room lists.

Domain Group Policy Definition Requirements

When an Acendo Core unit is enrolled on a domain, it's local policy definitions that are configured via the image we deploy on the unit are replaced with domain policy definitions and some of our policy rules are wiped out. These policies are used to lock down the system, such as hiding the C drive. The policy definitions being used for the Acendo Core experience are provided below so that they can be incorporated with customers exiting policy definitions.

Now that you have added the policy objects, navigate to and define the following policy definitions:

1. Local Computer Policy->Computer Configuration->Administrative Templates
 - a. Control Panel->Personalization
 - Force a specific background and accent color
 - Enabled
 - Start Background Color #000000 (black)
 - Accent color #666666 (grey)
 - Prevent changing lock screen image
 - Enabled
 - b. Microsoft Lync 2013
 - Disable automatic upload of signin failure logs
 - Enabled
 - c. Microsoft Office 2013 (Machine)
 - Enable Automatic Updates
 - Disabled
 - Enable Automatic Upgrade
 - Disabled
 - Hide option to enable or disable updates
 - Enabled
 - Hide Update Notifications
 - Enabled
 - d. Microsoft Office 2016 (Machine)
 - Enable Automatic Updates
 - Disabled
 - Hide option to enable or disable updates
 - Enabled
 - Hide Update Notifications
 - Enabled
 - e. System->Power Management->Sleep Settings
 - Allow automatic sleep with open network files (plugged in)
 - Disabled
 - Allow standby states (S1-S3) when sleepin (plugged in)
 - Disabled
 - Require a password when a computer wakes (plugged in)
 - Disabled
 - Specify the system sleep timeout (plugged in)
 - Enabled; value = 0; (never)
 - Specify the system hibernate timeout (plugged in)
 - Enabled; value = 0; (never)
 - Specify the unattended sleep timeout (plugged in)
 - Enabled; value = 0; (never)
 - f. Classic Administrative Templates (ADM)->Win 8.1 File Explorer Navigation Items
 - Hide Favorites
 - Enabled
2. Local Computer Policy->User Configuration->Administrative Templates
 - a. Control Panel->Personalization
 - Enable screen saver
 - Disabled

(continued1)

3. Local Computer\Non-Administrators Policy->User Configuration->Administrative Templates
 - a. Control Panel->Personalization
 - Enable Screen Saver
 - Disabled
 - b. Windows Components->File Explorer
 - Do not allow Folder Options to be opened from the Options button on the View tab of the ribbon
 - Enabled
 - Do not move deleted items to the recycle bin
 - Enabled
 - Hide these specified drives in My Computer
 - Enabled
 - Restrict C drive only
 - Prevent users from adding files to the root of their Users Files folder.
 - Enabled
 - Remove File Explorer's default context menu
 - Enabled
 - Remove File menu from File Explorer
 - Enabled
 - c. Windows Components->File Explorer->Common Open File Dialog
 - Hide the common dialog back button
 - Enabled
 - Hide the dropdown list of recent files
 - Enabled

Hide the common dialog places bar
Enabled
4. Finally, click **File->SaveAs**, enter the name *c:\Enzo\Rome.msc*, and click **Save**.

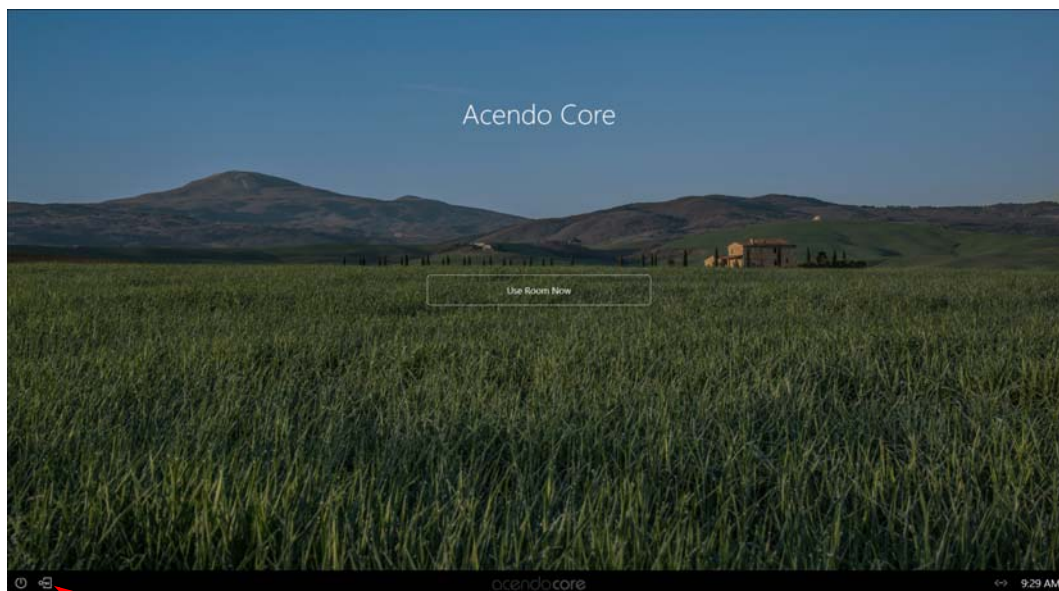
Going forward, to edit the group policies, use the following process:

1. Open *MMC*: click **Start**
2. Click in the *Start Search* box, type *mmc*, and then press **ENTER**.)
3. Click **File->Open** and select *Rome.msc*.
4. After making changes, make sure you save the new changes.

Screen Sharing

To enable Wireless Presentation, some manual configuration must be performed. Use the following processes to configure the units as an Access Point for wireless screen casting.

1. From main login screen, click the Key/Door icon in the bottom left (FIG. 100).



Press on the Key/Door icon to make changes to the system.

FIG. 100 Acendo Core Main Screen

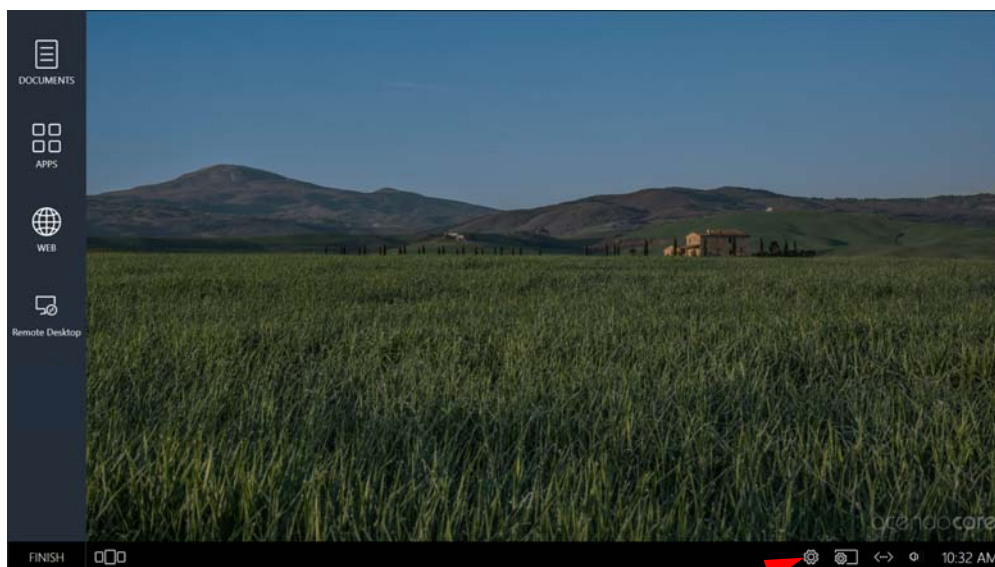
2. The login screen appears (FIG. 101).

The image shows the login screen. It has a title 'Log In' with a close button 'X' in the top right. Below the title, it says 'Leave domain blank to sign in to a local account.' There are three input fields: 'Domain', 'User Name', and 'Password'. Below these fields are two buttons: 'Log In' and 'Login In as Guest'. An orange arrow points to the 'Domain' field with the text 'The Domain field will be blank if unit is off domain.' Another orange arrow points to the 'Login In as Guest' button with the text 'This field will only appear when Guest Logins are permitted by Admin.'

FIG. 101 Login Screen

- Enter Username: coreadmin
- Enter Password: c0r3@dmiN (c zero r 3@dmiN)

3. Open Acendo Core Settings by clicking the Settings icon (FIG. 102). Continue with Screen Sharing configuration in the Admin Settings section and return to this procedure. Refer to *Screen Sharing* on page 40.



System Settings

FIG. 102 Administrator Session Screen - Settings Icon

4. Close all windows and select **Finish** at the bottom left corner of the screen (FIG. 103) and *Signout* of the Admin session.



FIG. 103 Administrator Session Screen - Finish-Signout

5. Click on **Use Room Now** to verify access point starts and has Internet connection.

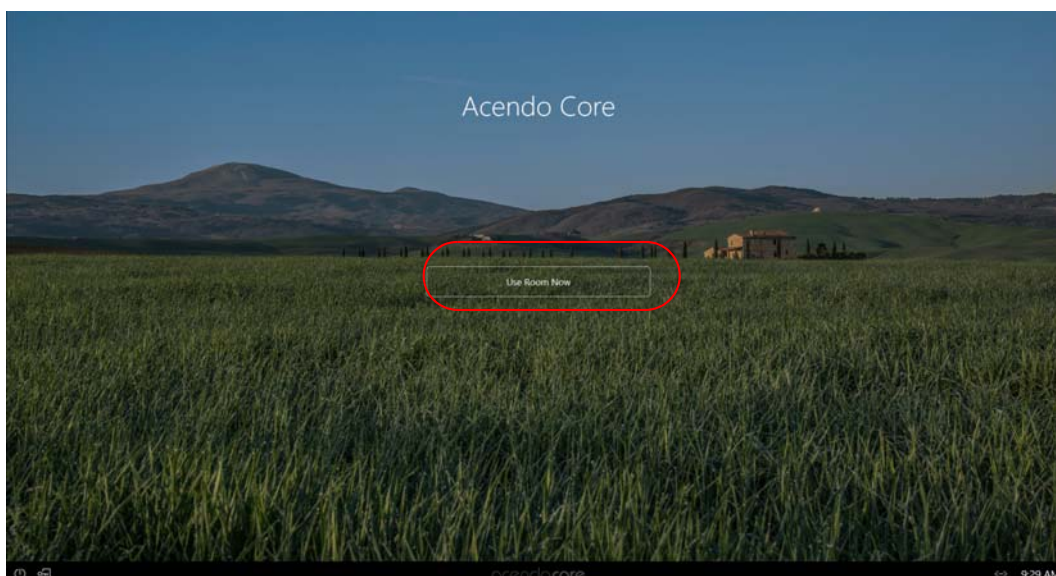


FIG. 104 Acendo Core Main Screen - Use Room Now

6. You will see the Screen Sharing icon on the bottom tool bar (FIG. 105). Click on it to bring up the connection information.

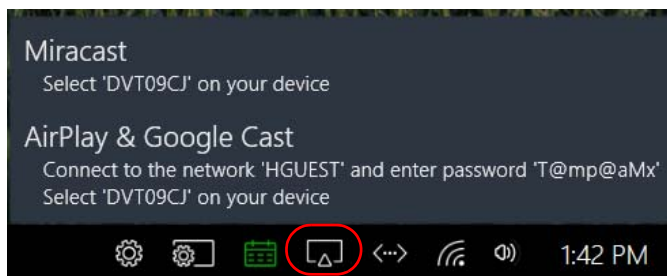


FIG. 105 User Session - Screen Sharing Enabled

Wireless Presentation (AirServer)

Verify the on-board AirServer app is running and you can present by connecting an Android or iOS device to Acendo Core.

1. Click on **Use Room Now** to verify the Access Point starts and has Internet connection (FIG. 105).
2. On your device, go to your settings and select your WiFi list.
3. Look for the Acendo Core SSID shown on the screen and select it.
4. Provide the password displayed on screen.
5. Use the *Home App* for Android devices or *Airplay Mirroring* for iOS devices to screen share.

Android

- a. From the Home Screen, click on the Google Home app on your device.
- b. Go to the Menu (three lines top left of screen) and select Cast Screen / Audio
- c. Select the Core device from the list.
- d. The device should now be casting onto the Core display.

Apple iOS

- a. Swipe up from your home screen and click on AirPlay Monitoring.
- b. Select the Core device listed that matches this rooms device.
- c. The device should now be casting onto the Core display.

Disabling USB Drives and WPD Devices

Disabling USB Removable Drives and WPD Devices using Group Policies

It is likely that some sites where Rome devices will be deployed will enforce security policies with regard to the use of USB removable drives and similar devices and will require these devices to be effectively disabled on the Rome device. The most straightforward method for an administrator to disable USB devices is using Group Policies.

In addition to traditional mass-storage devices such as flash-drives and removable hard-drives, smart phones, tablets, cameras, and other devices with a USB interface can appear as mass-storage devices when connected to a Windows system. These devices fall under varying group policies, either Removable Disks, WPD devices, or optical devices. For this reason, Rome administrators are advised to enable the *All Removable Storage classes: Deny all access* policy in order to effectively disable all devices that could potentially be used to provide unauthorized access via USB, without disabling USB for use with HID devices.

1. This policy resides in the Group Policy Editor under *User Configuration > Administrative Templates > System > Removable Storage Access* (FIG. 106).

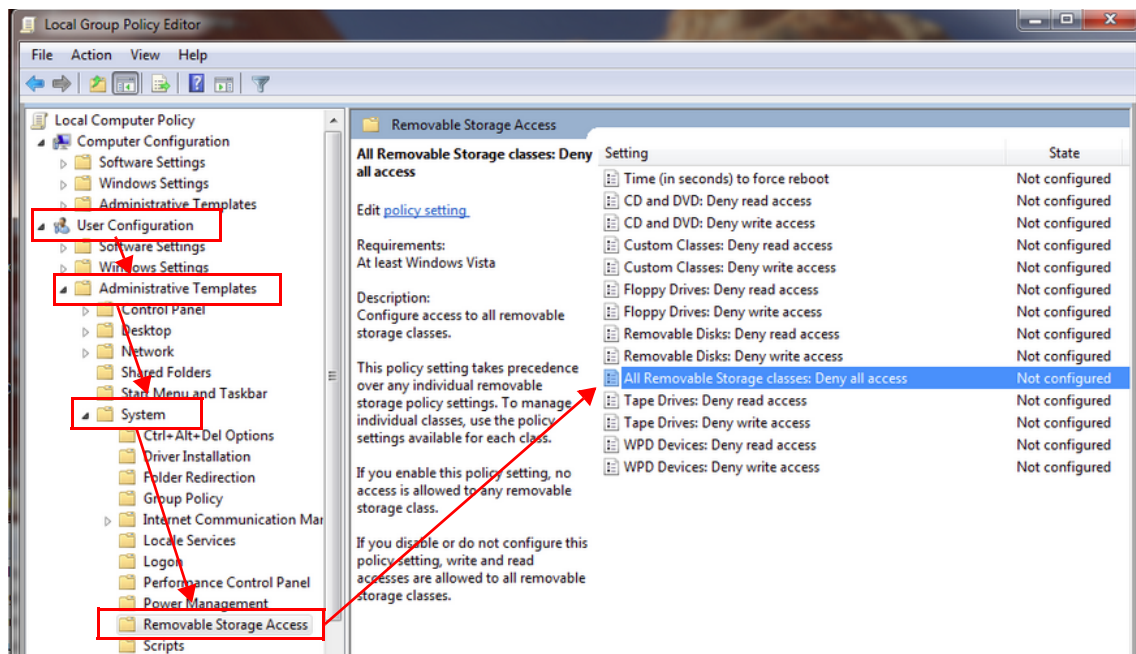


FIG. 106 Locating *All Removable Storage Classes: Deny All Access* Policy

2. Double-click on *All Removable Storage classes:Deny all access* to open the following window (FIG. 107).

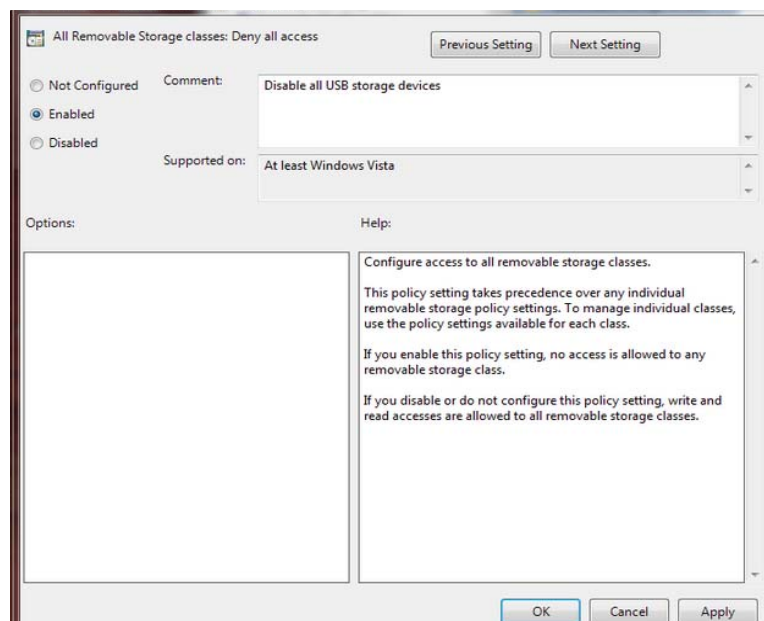


FIG. 107 *All Removable Storage Classes: Deny All Access* Policy

Implementing the Group Policy to Disable Removable Storage Devices

For the Acendo Core device itself, this can be accomplished by a user with administrator rights using the [Local Group Policy editor](#) (gpedit.msc). A similar process can be used to create a domain policy for users, groups, or workstations on the domain using the [GPO Management Console](#) (gpmc.msc).

The following table defines devices that were successfully disabled on Acendo Core and provides special notes to consider.

Device	Manufacturer	Device Type	Results	Notes
16G Flash Drive	PNY	Removable Drive	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>Removable Disks</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	
StoreJet USB 3.0 Portable Hard Disk	Transcend	Removable Drive	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>Removable Disks</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	Identifies as a fixed drive in Windows Explorer.
iPod Touch (iOS 9.3.1)	Apple	Media Device	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>WPD Devices</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	If connected with a disabling policy enabled, the device will remain deactivated when the policy is disabled, until the device is physically disconnected and reconnected to the system.
OnePlus Three (Android)	OnePlus	Smart Phone	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>WPD Devices</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	If connected with a disabling policy enabled, the device will remain deactivated when the policy is disabled, until the device is physically disconnected and reconnected to the system.
iPad 2nd Gen. (iOS 10.3.1)	Apple	Tablet	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>WPD Devices</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	If connected with a disabling policy enabled, the device will remain deactivated when the policy is disabled, until the device is physically disconnected and reconnected to the system.
Slim Portable DVD Writable	LG	DVD RW	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>CD and DVD Devices</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	
CoolPix S800C (Android)	Nikon	Camera	Can be disabled using: <ul style="list-style-type: none"> • <i>All Removable Storage classes</i>: Deny all access 	Using the <i>Removable Disks: Deny read/write access</i> policies blocked access to the camera's file system but still provided access to the SD card (if equipped). The <i>WPD Devices: Deny read/write access</i> did not affect access to this device.
Galaxy S4 (Android)	Samsung	Smart Phone	Can be disabled using one or both of: <ul style="list-style-type: none"> • <i>WPD Devices</i>: Deny read/write access • <i>All Removable Storage classes</i>: Deny all access 	

NetLinx Programming

Overview

This chapter defines all programming commands and system responses available for the ACR-5100 Acendo Core Meeting Collaboration System.

Device Ports:

The following table details the device ports on an Acendo Core system:

Port	Name	Description
1	Acendo Core	API exposed on this device port controls the core Acendo Core platform, settings, and Acendo Core operating environment.
2	Virtual Keypad	API exposed on this device port controls/interacts with the Virtual Keypad implementation built into Acendo Core's user interface.
3	Serial (RS-232)	API exposed on this device port controls/interacts with the serial port (RS-232) on the rear panel of the Acendo Core hardware. Port 3 of the Acendo Core ICSP device is used for communication and configuration of Acendo Core's serial port from a connected NetLinx master. Note: As a best practice the baud rate for the serial port should be set when Acendo Core comes online.

NetLinx Commands

The following list of commands may all be executed using the NetLinx SEND_COMMAND command. Commands with **AUTOSTART** in the description fields will execute whether Acendo is in an active session or not. Issuing this command will automatically start a session and launch the command.

NetLinx Commands	Description
ALERT	Displays an alert message. Of the arguments to pass with this command, only message is required. All other arguments are optional. Syntax: SEND_COMMAND <DEV>, " 'ALERT-<message>' " SEND_COMMAND <DEV>, " 'ALERT-<message>,<type>' " SEND_COMMAND <DEV>, " 'ALERT-<message>,<type>,<title>' " SEND_COMMAND <DEV>, " 'ALERT-<message>,<type>,<title>,<modal>' " SEND_COMMAND <DEV>, " 'ALERT-<message>,<type>,<title>,<modal>,<timeout>' " Variables: message = The message to send (required) type = The type of alert (optional). Accepted values are 'information', 'warning', 'question', 'security', and 'critical'. title = The title of the alert (optional). Suggested length is 60 characters or less, no hard limit is set. modal = The modal status for the alert (true or false), (optional). Default is false. timeout = The timeout in seconds for the alert message (optional). Default is 0. Example: SEND_COMMAND 10005:1:0, " 'ALERT-Exit Building Now, critical,, true' "
ALERT.CLOSE	Closes any active alert message prompt or alert that is typically opened via the ALERT command. Syntax: SEND_COMMAND <DEV>, " 'ALERT.CLOSE' "
APP.LAUNCH	Launches supported applications included with Acendo Core (auto-starts a session). AUTOSTART Syntax: SEND_COMMAND <DEV>, " 'APP.LAUNCH-<application>' " Variables: BROWSER, and SKYPE are currently the only supported applications. Note: On browser launch, you may get a notification "Older version of chrome is detected" and an offer to update to stay secure. Please ignore this response since the browser is embedded on Acendo Core and cannot be upgraded through the browser app. Example: SEND_COMMAND 10005:1:0, " 'APP.LAUNCH-BROWSER' " Response: None.
BROWSER	Opens the web browser starting at the default home page. Same as APP.LAUNCH-BROWSER. AUTOSTART Variables • url - the URI to display Syntax: SEND_COMMAND <dev>,'BROWSER-url'
EXIT	Exits the current session. Syntax: SEND_COMMAND <DEV>, " 'EXIT' "

Continued ↴

NetLinx Commands	Description																
FFWD	Moves playback forward 30 seconds on the currently open media player instance. Syntax: SEND_COMMAND <DEV> , " 'FFWD' "																
MEETING.ADD	If room scheduling is enabled, attempts to schedule a meeting with the given parameters. Syntax: MEETING.ADD-startTime,endTime,subject,body Variables: startTime - the meeting start date/time (see allowable date/time formats below) (required) endTime - the meeting end date/time (see allowable date/time formats below) (required) subject - the short meeting subject (required) body - the longer meeting comments (optional, defaults to empty) Supported date/time formats for MEETING commands: <table><tr><td>M/d/yy H:mm</td><td>M/d/yy h:mm tt</td><td>M/d/yy H:mm:ss</td><td>M/d/yy h:mm:ss tt</td></tr><tr><td>MM/dd/yy HH:mm</td><td>MM/dd/yy hh:mm tt</td><td>MM/dd/yy HH:mm:ss</td><td>MM/dd/yy hh:mm:ss tt</td></tr><tr><td>M/d/yyyy H:mm</td><td>M/d/yyyy h:mm tt</td><td>M/d/yyyy H:mm:ss</td><td>M/d/yyyy h:mm:ss tt</td></tr><tr><td>MM/dd/yyyy HH:mm</td><td>MM/dd/yyyy hh:mm tt</td><td>MM/dd/yyyy HH:mm:ss</td><td>MM/dd/yyyy hh:mm:ss tt</td></tr></table> Responds with: MEETING.RESPONSE-ADD,meetingId,result,error Result Variables: meetingId - if successful, a string indicating the unique meeting id context, or empty result - the result of the add meeting command: true, false error - if result is false, a string indicating the error that occurred, otherwise empty	M/d/yy H:mm	M/d/yy h:mm tt	M/d/yy H:mm:ss	M/d/yy h:mm:ss tt	MM/dd/yy HH:mm	MM/dd/yy hh:mm tt	MM/dd/yy HH:mm:ss	MM/dd/yy hh:mm:ss tt	M/d/yyyy H:mm	M/d/yyyy h:mm tt	M/d/yyyy H:mm:ss	M/d/yyyy h:mm:ss tt	MM/dd/yyyy HH:mm	MM/dd/yyyy hh:mm tt	MM/dd/yyyy HH:mm:ss	MM/dd/yyyy hh:mm:ss tt
M/d/yy H:mm	M/d/yy h:mm tt	M/d/yy H:mm:ss	M/d/yy h:mm:ss tt														
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MM/dd/yyyy HH:mm	MM/dd/yyyy hh:mm tt	MM/dd/yyyy HH:mm:ss	MM/dd/yyyy hh:mm:ss tt														
MEETING.EDIT	If room scheduling is enabled, attempts to edit an existing meeting with the given parameters. Syntax: MEETING.EDIT-meetingId,startTime,endTime,subject,body Variables: meetingId - the unique meeting id returned in the response to MEETING.ADD (required) startTime - the meeting start date/time (see allowable date/time formats below) (required) endTime - the meeting end date/time (see allowable date/time formats below) (required) subject - the short meeting subject (required) body - the longer meeting comments (optional, defaults to empty) Supported date/time formats for MEETING commands: <table><tr><td>M/d/yy H:mm</td><td>M/d/yy h:mm tt</td><td>M/d/yy H:mm:ss</td><td>M/d/yy h:mm:ss tt</td></tr><tr><td>MM/dd/yy HH:mm</td><td>MM/dd/yy hh:mm tt</td><td>MM/dd/yy HH:mm:ss</td><td>MM/dd/yy hh:mm:ss tt</td></tr><tr><td>M/d/yyyy H:mm</td><td>M/d/yyyy h:mm tt</td><td>M/d/yyyy H:mm:ss</td><td>M/d/yyyy h:mm:ss tt</td></tr><tr><td>MM/dd/yyyy HH:mm</td><td>MM/dd/yyyy hh:mm tt</td><td>MM/dd/yyyy HH:mm:ss</td><td>MM/dd/yyyy hh:mm:ss tt</td></tr></table> Responds with: MEETING.RESPONSE-EDIT,meetingId,result,error Result Variables: meetingId - a string indicating the unique meeting id context result - the result of the edit meeting command: true, false error - if result is false, a string indicating the error that occurred, or empty	M/d/yy H:mm	M/d/yy h:mm tt	M/d/yy H:mm:ss	M/d/yy h:mm:ss tt	MM/dd/yy HH:mm	MM/dd/yy hh:mm tt	MM/dd/yy HH:mm:ss	MM/dd/yy hh:mm:ss tt	M/d/yyyy H:mm	M/d/yyyy h:mm tt	M/d/yyyy H:mm:ss	M/d/yyyy h:mm:ss tt	MM/dd/yyyy HH:mm	MM/dd/yyyy hh:mm tt	MM/dd/yyyy HH:mm:ss	MM/dd/yyyy hh:mm:ss tt
M/d/yy H:mm	M/d/yy h:mm tt	M/d/yy H:mm:ss	M/d/yy h:mm:ss tt														
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MM/dd/yyyy HH:mm	MM/dd/yyyy hh:mm tt	MM/dd/yyyy HH:mm:ss	MM/dd/yyyy hh:mm:ss tt														
MEETING.DELETE	If room scheduling is enabled, attempts to delete an existing meeting with the given id Syntax: MEETING.DELETE-meetingId Variables: meetingId - the unique meeting id returned in the response to MEETING.ADD (required) Responds with: MEETING.RESPONSE-DELETE,meetingId,result,error Result Variables: meetingId - a string indicating the unique meeting id context result - the result of the delete meeting command: true, false error - if result is false, a string indicating the error that occurred, or empty																
MEETING.WEBCONF	If room scheduling is enabled and a session has been started with a meeting context containing a web conferencing link (i.e., Skype For Busniess), will start the web conference Syntax: MEETING.WEBCONF																
NEXT	If available, skips to the next item in the playlist of the currently open media player instance. Syntax: SEND_COMMAND <DEV> , " 'NEXT' "																
PAUSE	Pauses playback on the currently open media player instance. Syntax: SEND_COMMAND <DEV> , " 'PAUSE' "																
PLAY	Resumes playback on the currently open media player instance. Syntax: SEND_COMMAND <DEV> , " 'PLAY' "																
PREVIOUS	If available, skips to the previous item in the playlist of the currently open media player instance. Syntax: SEND_COMMAND <DEV> , " 'PREVIOUS' "																

Continued 7

NetLinx Commands	Description
REWIND	Moves playback backward 30 seconds on the currently open media player instance. Syntax: SEND_COMMAND <DEV>, " 'REWIND' "
?SESSION	Query for the current session state; responds with: SESSION-username Variables: username - 'NONE' if not in session 'ADMIN' if in the admin session 'GUEST' if in the guest session, or the username signed in if in a domain user session Syntax: SEND_COMMAND <dev>, '?SESSION'
START	Starts a new session and responds with START.RESPONSE-result,error Variables: result - the result of the session start command: true, false error - if result is false, a string indicating the error that occurred, otherwise empty Syntax: SEND_COMMAND <DEV>, " 'START' "
START.NEXT	If defined, starts a session using the context of the meeting currently in the 'Now' calendar slot; responds with: START.RESPONSE-result,error Variables: result - the result of the session start command: true, false error - if result is false, a string indicating the error that occurred, otherwise empty Syntax: SEND_COMMAND <DEV>, " 'START.NOW' "
START.NOW	If defined, starts a session using the context of the meeting currently in the 'Now' calendar slot; responds with: START.RESPONSE-result,error Variables: result - the result of the session start command: true, false error - if result is false, a string indicating the error that occurred, otherwise empty Syntax: SEND_COMMAND <DEV>, " 'START.NOW' "
STOP	Stops playback on the currently open media player instance. Syntax: SEND_COMMAND <DEV>, " 'STOP' "
VIEW	Launches the media player and starts playing the supplied URL. Variables: url - the full URL of the media to play; may be a file or a streaming URL (required) Syntax: SEND_COMMAND <DEV>, " 'VIEW-<url>' " Example: SEND_COMMAND <DEV>, " 'VIEW-<https://youtu.be/6LuMTmyDNwY>' "
?VIEW	Queries the current media player playback state; responds with each of the following: VIEW.STATE - (string) Indicates the current playstate (UNKNOWN, CLOSED, PLAYING, PAUSED) VIEW.URL - (string) Indicates the media being played (currently loaded media, or empty) VIEW.RESPONSE - (string) Indicates the beginning of a set of response commands VIEW.RESOLUTION - (string) Specifies the width and height (e.g., 1920x1080) of the media being played, or empty) VIEW.VIDEOCODEC Indicates the video codec type of the media being played or empty VIEW.DURATION (string) Indicates the total duration of the media being played, specifying the total play time as HH:MM:SS VIEW.CURRENTTIME (string) Indicates the current playback time of the media being played, specifying the current play time as HH:MM:SS VIEW.CURRENTPERCENT (integer) Indicates the current playback position of the media being played as a percentage between 0 and 100 Syntax: SEND_COMMAND <DEV>, "?VIEW"
VIEW.CLOSE	Stops the media and closes the Media Player. Syntax: SEND_COMMAND <DEV>, "VIEW.CLOSE"

Continued 1

NetLinx Commands	Description
VOLUME	Sets the system volume to the given level Variables: <code>level</code> - the volume level specified as a whole number between 0 and 255 (required) Syntax: SEND_COMMAND <dev>, 'VOLUME-<level>' Example: SEND_COMMAND 1001:1:0, 'VOLUME-128'
VOLUME.MUTE	Mutes or unmutes the system volume. Variables: <code>state</code> - <code>true/on/1</code> = muted <code>false/off/0</code> = unmuted (req) Syntax: SEND_COMMAND <dev>, 'VOLUME.MUTE-<mute>' Example SEND_COMMAND 1001:1:0, 'VOLUME.MUTE-off'
WEB	Opens a full-screen web view of the given URL (auto-starts a session). AUTOSTART Variables: <code>url</code> - the full URL of the web page to display (required) Syntax: SEND_COMMAND <DEV>, " 'WEB-<uri>' " Example: SEND_COMMAND <DEV>, WEB- "http://www.foxnews.com"

Acendo Core System Responses

The following table lists status events generated by Acendo Core, some generated as command responses and some as unsolicited responses.

Event	Description
SESSION	Asynchronous event A new session is started 'SESSION-TRUE' A session is ended 'SESSION-FALSE'
Possible states sent to the NetLinx programmer for Streaming Content:	
ACTIVITY.STATE	Automatically sent out when apps are started. ACTIVITY.STATE-ONSTARTING,<simple app name> Variables" simple app name = Home, Browser or Skype IMPORTANT: <i>Only a few applications have a simple application name. So don't expect this response for all activities.</i> Example Responses: ACTIVITY.STATE-ONSTARTING,HOME ACTIVITY.STATE-ONSTARTING,BROWSER
ALERT.CLOSED	If using "AlertActivity" a response is sent when the alert closes. It will include yes, no, ok, and command base on how it is closed. Example responses: ALERT.CLOSED=yes ALERT.CLOSED=no ALERT.CLOSED=ok

Troubleshooting

This section provides a list of error dialog pop-ups that may appear during an Admin or User session and possible remedies for each of them.

Room Booking Issues

Error	Remedy
An invalid URL has been entered.	<ul style="list-style-type: none"> Malformed URL was entered as the server's address. Network reports "404" or "403" and unit cannot reach server.
Bad credentials have been entered.	<ul style="list-style-type: none"> Server has returned a "500" error suggesting server or account configuration is incorrect.
Connected	<ul style="list-style-type: none"> This is a "green" state where the credentials, resource, and connection to the server has been verified.
Connecting	<ul style="list-style-type: none"> The unit is in the process of validating credentials, resource, and overall connection status.
Disabled	<ul style="list-style-type: none"> Room Booking feature has been disabled.
Invalid Resource	<ul style="list-style-type: none"> Unable to look up the resource's SMTP address, please verify information is correct and resource exists in Service.
Not configured	<ul style="list-style-type: none"> Unit is missing information in the connection details (URL, Username, Password, Resource).
Resource calendar is not configured for the username provided.	<ul style="list-style-type: none"> The credentials provided do not have adequate permissions for the resource provided.
Server has timed out, please check host/IP address.	<ul style="list-style-type: none"> Network has reported the unit's operation has timed out or it is unable to reach the remote server.
Server is busy and cannot service this request right now.	<ul style="list-style-type: none"> Credentials and resource configuration could be resulting in the server unable to complete all types of requests. For more details see Server request capacity has been reached and is unable to respond to all requests.
Server responded with: Login Timeout	<ul style="list-style-type: none"> Most common cause of this error is a partially formed URL. End of URL should be similar to "ews/exchange.asmx" or resolve to a DNS entry similar to string.
Server throttled - You have exceeded the available concurrent connections for your account.	<ul style="list-style-type: none"> Too many active connections to credentials or resource. For more details see <i>"Why Impersonation is Recommended for Exchange/Office 365"</i> on page 50.
Server throttled - You have exceeded the available subscriptions for your account.	<ul style="list-style-type: none"> Please check your credentials to resource configuration. For more details see <i>"Why Impersonation is Recommended for Exchange/Office 365"</i> on page 50.
Server unavailable - check your Server URL.	<ul style="list-style-type: none"> Server reports "503" or connection with the server was intentionally closed.
Unauthorized access	<ul style="list-style-type: none"> Server reports "401" or "unauthorized", please check credentials and permissions.
Unknown error	<ul style="list-style-type: none"> Something truly unexpected has occurred, Please contact Tech Support for further instructions.
URL may be incorrect or Server may be busy.	<ul style="list-style-type: none"> A server has responded, but with invalid XML, meaning it isn't an Exchange/Office 365 server or network load balancing is occurring.
Version Not Supported	<ul style="list-style-type: none"> The unit only supports Exchange/Office 365 servers 2013 SP1 or higher.

Wireless Presentation Issues

Error	Remedy
Problems Reconnecting to Core	It depends on the phone's implementation. Some phones complain and prompt the user for the password. Most other phones quietly fail to connect. On these devices users must go in and make it "forget" the network and then reconnect using the new password.



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