Dolby

Dolby Accessibility Solution

User's Manual

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Notices

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The Dolby Accessibility Solution makes use of the third-party software licensed under open-source licenses together with the required notices thereto ("open-source components").

Refer to the *Dolby Accessibility Solution Third-Party Software* documentation or contact Dolby Cinema Solutions and Support for more information.

Limited warranty and warranty exclusions

THE LIMITED WARRANTY AND WARRANTY EXCLUSIONS MAY BE FOUND AT THE FOLLOWING URL: https://www.dolby.com/us/en/about/warranty-and-maintenance-policies.html

Safety instructions and regulatory guidelines

For Wi-Fi routers

Refer to the Wi-Fi routers' user manual and documentation for safety instructions and regulatory notices associated with any Wi-Fi router received as part of the Dolby Accessibility Solution.

For ASUS phone model ASUS_X00ID(ZC554KL)

ASUS phone model ASUS_X00ID (ZC554KL) is NOT intended for use as a Dolby Accessibility Solution Receiver outside of Brazil.

United States (FCC) regulatory notices
For Dolby Accessibility Solution Server and Tablet Model VT-TAB55-RK68-DB8 only

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try to correct the interference by one or more of the following measures:

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

Any changes or modifications to this product could void the authorization provided to the user to operate this device.

Properly shielded and grounded cables and connectors must be used for connection to other accessories and/or peripherals in order to meet FCC emission limits.

FCC RF exposure statement for Tablet Model VT-TAB55-RK68-DB8 only

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and 47 CFR Part 2.1093. This model meets the applicable government requirements for exposure to radio frequency waves and tested for body-worn Specific Absorption Rate (SAR) compliance. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 5 mm separation distance between the body of the user and the edge of the device. This equipment must not be co-located or operated in conjunction with any other antenna or transmitter. Any changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate this equipment.

European Union
EU regulations

Dolby Laboratories hereby declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The complete Declaration of Conformity can be obtained upon request.

С настоящото Dolby Laboratories декларира, че това оборудване съответства на основните изисквания и други приложими клаузи на Директива (2014/53/EC).
Dolby Laboratories ovime izjavljuje da je ova oprema u skladu s ključnim zahtjevima i drugim važnim odredbama Direktive (2014/53/EU).
Dolby Laboratories tímto prohlašují, že toto zařízení je v souladu se základními požadavky a dalšími příslušnými ustanoveními Směrnice (2014/53/EU).
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Dolby Laboratories déclare par la présente que cet équipement est conforme aux exigences essentielles et à la réglementation associée de la Directive 2014/53/UE.
Hiermit erklärt Dolby Laboratories, dass dieses Gerät mit den grundlegenden Anforderungen und übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU übereinstimmt.
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Pelo presente, a Dolby Laboratories declara que este equipamento se encontra em conformidade com os requisitos fundamentais e outras cláusulas relevantes da Directiva 2014/53/UE.
Dolby Laboratories declară prin prezenta că acest echipament respectă cerințele esențiale şi alte prevederi relevante ale Directivei 2014/53/UE.
Dolby Laboratories týmto vyhlasujú, že toto zariadenie je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami Smernice (2014/53/EÚ).
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Dolby Laboratories declara por el presente documento que este equipo cumple los requisitos esenciales y demás disposiciones relevantes de la directiva (2014/53/UE).
Dolby Laboratories garanterar härmed att denna utrustning uppfyller relevanta krav och bestämmelser i direktiv 2014/53/EU.

Waste electrical and electronic equipment (WEEE)

All Dolby products, which must be recycled or handled separately, are marked with a WEEE label in accordance with the EU WEEE Directive.

Restriction of Hazardous Substances Directive (RoHS)

All Dolby products comply with the requirements of the EU RoHS Directive.

Canada

For Dolby Accessibility Solution Tablet Model VT-TAB55-RK68-DB8 only

This device complies with ISED license-exempt Rules. Operation is subject to the following two conditions:

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

This class B apparatus complies with Canadian ICES-003. CAN ICES-003(B)/NMB-003(B).

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage.
2. l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil de classe B est conforme avec la norme ICES-003 du Canada. CAN ICES-003(B)/NMB-003(B).

This radio transmitter (ISED certification number: 11152A-TAB55) may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. Other antenna types, or having a gain greater than the maximum gain approved for that type, are strictly prohibited for use with this transmitter.

Le présent émetteur radio (numéro de certification ISED: 11152A-TAB55) peut seulement fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Les autres types d'antenne, ou ayant un gain supérieur au gain maximal approuvé pour ce type, sont strictement interdits pour l'utilisation de l'émetteur.

This device complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS102 of the ISED Radio Frequency Exposure rules. This device was tested for typical body-worn operations with the back of the device kept 5 mm from the body. To maintain compliance with ISED RF exposure requirements, use accessories that maintain a 5 mm separation distance between the body of the user and the back of this device.

Cet appareil est conforme aux limites ISED d'exposition aux radiations indiquées pour un environnement non contrôlé et il est aussi conforme aux règles d'exposition aux radio fréquences RSS102 de l'ISED. Cet appareil a été testé pour les opérations typiques avec port sur le corps et l'arrière de l'appareil maintenu à 5 mm du corps. Pour maintenir la conformité aux exigences d'exposition RF de l'ISED, utilisez des accessoires qui maintiennent une distance de séparation de 5 mm entre le corps de l'utilisateur et l'arrière de cet appareil.

⚠Caution: 5.15-5.25 GHz band is restricted to indoor operations only to reduce the potential harmful interference to co-channel mobile satellite systems.

Avertissement: La bande de 5150 MHz à 5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciables aux systèmes de satellites mobiles utilisant les mêmes canaux.

Avisos de regulamentação do Brasil (Anatel)

Apenas para telephone Asus modelo ASUS_X00ID (ZC554KL)

Resoluções 242 e SAR

Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados pela Resolução nº 242/200 e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos, eletromagnéticos de radiofrequência, de acordo com as Resoluções nº 303/2002 e 533/2009.

Artigo 6º da Resolução 506

Este equipamento opera em caráter secundário. Isto é, não tem direito a proteção contra intereferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Para maiores informações, consulte o site da ANATEL www.anatel.gov.br

Os modelos ASUS_X00ID (ZC554KL) serão fornecidos com bateria modelo C11P1612, nº de homologação 00126-17-08674.

Este dispositivo está em conformidade com as diretrizes de exposição à radiofrequência quando utilizado na posição normal de uso no ouvido ou quando posicionado a pelo menos 1,5 centímetros de distância do corpo.

Internet Access Declaration for tablet model VT-TAB55-RK68-DB8 only

The tablet model VT-TAB55-RK68-DB8 is configured with special software that allows the user to connect it only to the "private" Dolby Accessibility Solution network. The user cannot connect this tablet to the Internet Service Provider (ISP) network, and as such, it is out of the scope of ANATEL Act 77 and associated CPE (customer-premises equipment) requirements.

Warning and safety symbols

	This symbol that appears in this manual is intended to alert the user to the presence of uninsulated “dangerous” voltage within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

	This symbol that appears in this manual is intended to alert the user to the presence of important safety operating and maintenance instructions.

	This symbol that appears on the unit rear panel and in this manual is intended to alert the user to the presence of uninsulated “dangerous” voltage within the product’s enclosure that maybe of sufficient magnitude to constitute a risk of electric shock to persons.

	This symbol that appears on the unit rear panel is intended to alert the user to the presence of important safety operating and maintenance instructions.

Important safety instructions

	1.	Read these instructions.
	2.	Keep these instructions.
	3.	Heed all WARNINGS.
	4.	Follow all instructions.
	5.	This product is for indoor use only.
	6.	WARNING: Do not use this apparatus near water.
	7.	WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
	8.	WARNING: To prevent electric shock, do not remove the top cover or attempt to service the unit in any way. There are no user-serviceable parts inside the unit. Refer all servicing and troubleshooting to qualified service personnel only.
	9.	Clean only with dry cloth.
	10.	Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
	11.	No naked flame sources, such as lighted candles, should be placed on the apparatus.
	12.	Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits from the apparatus.
	13.	Only use attachments/accessories specified by the manufacturer.
	14.	Unplug this apparatus when unused for long periods of time.
	15.	Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
	16.	Do not expose the apparatus to dripping or splashing, and no objects filled with liquids, such as vases, should be placed on the apparatus.
	17.	WARNING: Troubleshooting must be performed by a trained technician. To reduce the risk of electric shock, do not attempt to service this equipment unless you are qualified to do so.

	18.	Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
	19.	This apparatus must be earthed (grounded) by connecting to a correctly wired and earthed power outlet.
	20.	Ensure that your mains supply is in the correct range for the input power requirement of the unit.
	21	To avoid exposure to dangerous voltages and to avoid damage to the unit, do not connect the rear-panel Ethernet port to telephone circuits.

Electronic equipment warning

Do not throw any electronic equipment or batteries in fire. Do not disassemble any electronic equipment or batteries. Do not short-circuit the contacts.

Battery warning

 WARNING: Do not disassemble, short-circuit, or dispose of in fire.

 CAUTION: Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries according to the instructions.

Hearing warning

	Do not listen to the Dolby Accessibility Solution Receiver at high volume levels for long periods.

Product end-of-life information

	Do not throw any electronic equipment or batteries in municipal waste. The wheelie bin crossed-out symbol indicates that at end of life, the product should not be placed in municipal waste. Comply with local regulations to dispose of electronic equipment and batteries.

Contents

1

Introduction to the Dolby Accessibility Solution User's Manual

This documentation provides instructions for performing the initial hardware setup and configuration for the Dolby Accessibility Solution.

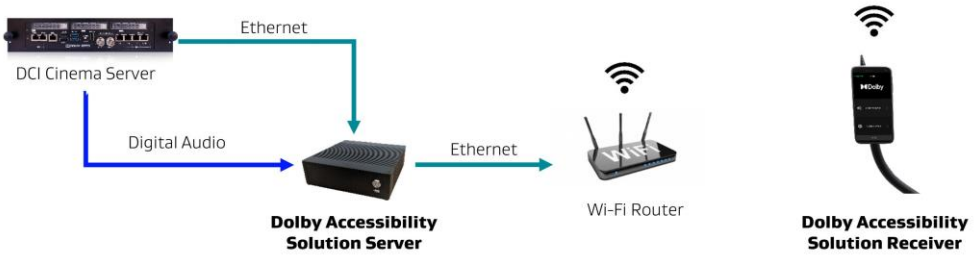
This chapter covers the following topics:

1.1 About the Dolby Accessibility Solution

The Dolby Accessibility Solution is a complete solution that integrates multiple accessibility resources for real-time delivery to one or more receivers, each with a dedicated touch screen.

The available resources are determined by accessible content available per region. In most areas, the Dolby Accessibility Solution offers amplified audio, audio description, and closed captioning. In Brazil, the available resources are Brazilian sign language (known as Libras), audio description and closed captioning. The Dolby Accessibility Solution enables cinema exhibitors to provide accessibility solutions for guests with visual or hearing impairments. The Dolby Accessibility Solution works with any compliant digital cinema server and Digital Cinema Package (DCP) that contains amplified audio, descriptive audio, closed captioning, or sign language video.

Figure 1: Dolby Accessibility Solution overview



1.2 Related documentation

Dolby provides a full set of documentation to support setting up and configuring the Dolby Accessibility Solution.

- The *Dolby Accessibility Solution Theatre Staff Reference Guide for Brazil* includes information about setting up the Dolby Accessibility Solution Receiver for a patron.
- The *Dolby Accessibility Solution Theatre Staff Reference Guide for regions other than Brazil* includes information about setting up the Dolby Accessibility Solution Receiver for a patron.
- The *Dolby Accessibility Solution Third-Party Software* documentation includes information regarding third-party software attributions.
- The *Dolby Accessibility Solution Server Software Release Notes* include information regarding new features, bug fixes, other improvements, and known issues.
- The *Dolby Accessibility Solution Receiver Software Release Notes* include information about new features, bug fixes, other improvements, and known issues.
- *Dolby Accessibility Solution Server Field Bulletin 269* incudes information about changing the BIOS settings and CMOS battery in DAS-100 and DAS-110.
- *Dolby Accessibility Solution DAS-100 and CineAssista BIOS Update Package* contains the BIOS and instructions for upgrading the server so that the BIOS will not be reset to unusable settings if the CMOS battery dies.
- *Dolby Accessibility Solution DAS-110 BIOS Update Package* contains the BIOS and instructions for upgrading the server so that the BIOS will not be reset to unusable settings if the CMOS battery dies.

1.3 Contacting Dolby

You can contact Dolby Cinema Solutions and Support using email or regional telephone numbers. You can also access documentation by visiting the Dolby customer portal.

Contact Dolby Cinema Solutions and Support

- Send an email to cinemasupport@dolby.com.
- Call:

  Americas: +1-415-645-4900
  Argentina: +54-11-5031-8725
  Brazil: +55-11-4217-0358
  Colombia: +57-2-891-2888
  Mexico: +52-55-8526-2744
  Europe/Middle East/Africa (EMEA): +44-33-0808-7700
  Asia-Pacific (APAC): +86-400-006-2751

Access documentation

Visit https://customer.dolby.com/cinema/.

Submit feedback about this documentation

Send an email to documentation@dolby.com.

2

Dolby Accessibility Solution hardware components

The Dolby Accessibility Solution system hardware components ship in separate boxes.

This chapter covers the following topics:

2.1 Dolby Accessibility Solution packing list

The Dolby Accessibility Solution packing list itemizes the hardware components that ship in separate boxes.

The Dolby Accessibility Solution Server ships with these hardware components in a box:

- Dolby Accessibility Solution Server
- Power adapter and power cord
- Two audio Y-cables
- Two RJ-45 Ethernet cables
- One 25-pin D-connector to RJ-45 audio adapter
- 25-pin D-connector female to 25-pin D-connector female adapter (also known as a gender changer)

The Dolby Accessibility Solution Receiver ships with these hardware components in a box:

- Dolby Accessibility Solution Receiver with adjustable arm and cupholder mounting base.
- USB charging cable.

The Wi-Fi router (where available) ships with these hardware components in a box:

- Wi-Fi router
- Power adapter

2.2 Dolby Accessibility Solution Server hardware components

The Dolby Accessibility Solution Server and its hardware components ship in the same box.

2.2.1 Dolby Accessibility Solution Server

The Dolby Accessibility Solution Server is the dedicated device that processes accessibility information from the Digital Cinema Package (DCP). Based on region, it supports transmission of Hearing Impaired (HI) audio tracks, Visually Impaired-Narration (VI-N) audio tracks, closed caption information, and Libras sign language information from a digital cinema server to the Dolby Accessibility Solution Receiver.

Note: Libras sign language is available only in Brazil.

Note: HI audio is not available in Brazil.

The Dolby Accessibility Solution Server contains different input / output connectors on the rear panel.

Figure 2: Dolby Accessibility Solution Server rear panel

Note: Earlier versions of DAS-100 and DAS-110 shipped with custom BIOS settings that can be lost if the CMOS battery is drained. Dolby now provides new BIOS for the DAS-100 and DAS-110 that prevents these issues.

2.2.2 Power adapter and power cord

The power adapter and corresponding power cord connect the Dolby Accessibility Solution Server to an external power source.

2.2.3 Audio Y-cable

The audio Y-cable splits channels 7 and 8 or channels 15 and 16 from the cinema server and supplies those channels to the Dolby Accessibility Solution Server. Then, channels 1-6 or channels 9-14 are passed to the cinema audio processor.

The Dolby part numbers are 8322917 (purple) for channels 1-8 and 8322916 (pink) for channels 9-16. The cables have different colors just for ease of installation. Functionally they are the same.

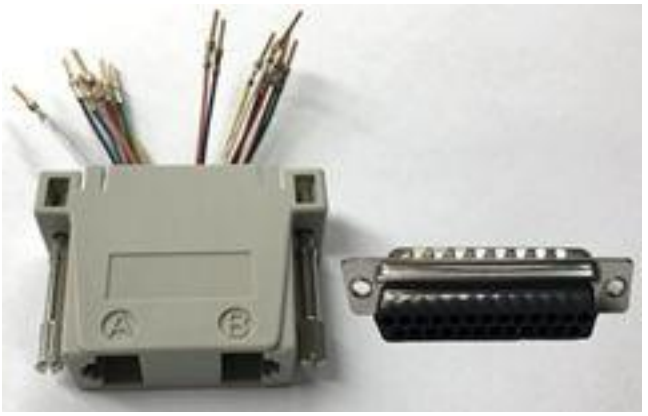
Note: some servers or installations may use channels other than 7/8 and 15/16. Custom cables will need to be made in this situation.

2.2.4 25-pin D-connector to RJ-45 audio adapter

Older media block/servers used DB25 connectors for audio output. The 25-pin D-connector (unpinned) to RJ-45 audio adapter is used to route the audio to the connector type used by the Dolby Accessibility Solution Server.

The Dolby part number is 7501670.

Figure 3: 25-pin D-connector to RJ-45 audio adapter



2.2.5 25-pin D-connector female to 25-pin D-connector female adapter

The 25-pin D-connector female to 25-pin D-connector female adapter (gender changer) is used to adapt two male DB25 audio connections. This adapter is necessary when configuring a Dolby DSP100 or DSS200 (or similar server) to use the 25-pin D-connector to RJ-45 audio adapter.

2.3 Dolby Accessibility Solution Receiver hardware components

The Dolby Accessibility Solution Receiver and its hardware components ship in the same box.

2.3.1 Dolby Accessibility Solution Receiver

The Dolby Accessibility Solution Receiver is an exhibitor-owned mobile device that a patron borrows from the theatre service kiosk.

The patron takes the Dolby Accessibility Solution Receiver into the auditorium. Depending on the installed region and the requirements of each patron, the Dolby Accessibility Solution Receiver receives the HI audio track, Visually Impaired-Narration audio track, closed captioning, or sign language from the Dolby Accessibility Solution Server.

- The Dolby Accessibility Solution Receiver display includes a privacy coating that prevents light leakage so that other patrons are not distracted by the device.
- The Dolby Accessibility Solution Receiver is attached to an adjustable arm. The adjustable arm is user configurable and sits upright in the auditorium seat cup holder. An optional support arm is available with a clamp mount that can be attached to a flat surface if different mounting options are required.

Figure 4: Dolby Accessibility Solution Receiver for regions other than Brazil

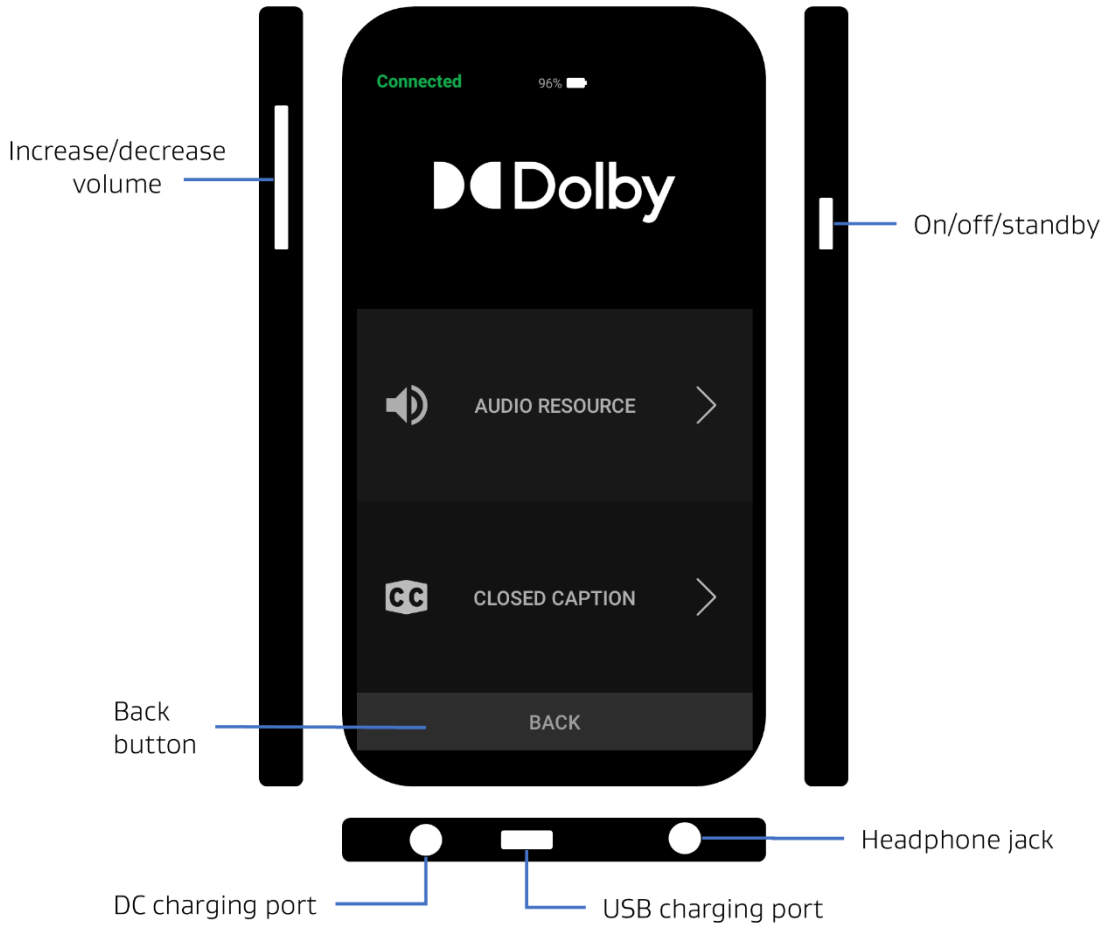
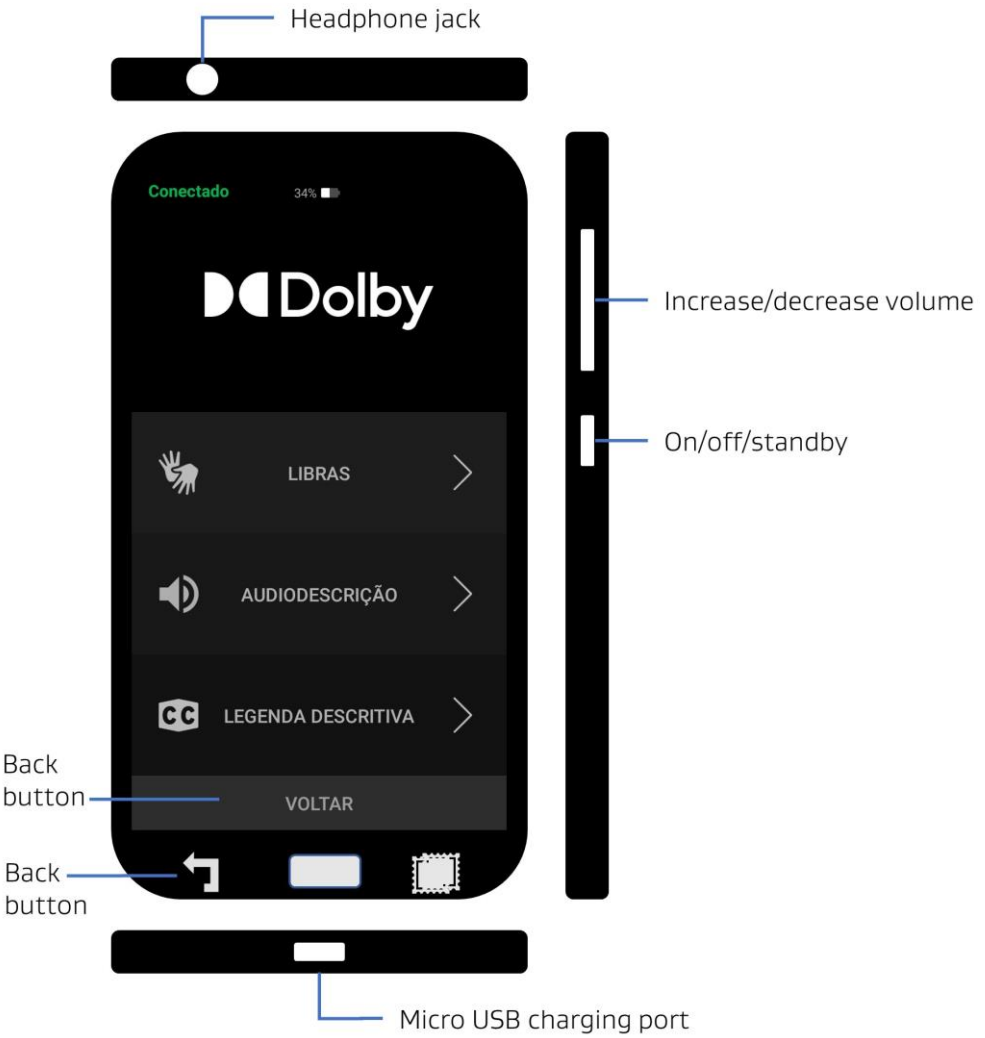


Figure 5: Dolby Accessibility Solution Receiver for Brazil



2.3.2 USB charging cable

A USB cable is used to charge the Dolby Accessibility Solution Receiver. Depending on the model of receiver in use, different types of USB cables are included.

- Micro USB to USB Type-A cable

  One end of this cable has a micro-USB connector, and the other end has a USB Type-A connector that plugs into a charging adapter.

- DC plug to USB Type-A cable

  One end of this cable has a 3.5 x 1.35mm circular or barrel (center +/positive) connector, and the other end has a USB Type-A connector that plugs into a charging adapter.

2.4 Wi-Fi router hardware components

The Wi-Fi router and its hardware components ship in the same box.

2.4.1 Wi-Fi router

The Wi-Fi router is required to connect to each Dolby Accessibility Solution server and transmits the accessibility information from the Dolby Accessibility Solution Server to the Dolby Accessibility Solution Receiver. Depending on the installation country, a Wi-Fi router may not be available directly from Dolby. Dolby currently offers the following Wi-Fi routers:

- Brazil: TP-Link Archer C50
- USA and Canada: TP-Link Archer C80, TP-Link Archer AX10
- European Union: TP-Link Archer C80, TP-Link Archer AX10

Note: This list is subject to change without notice.

2.4.2 Power adapter and power cord

The power adapter and corresponding power cord connect the Wi-Fi router to an external power source.

3

Installing the Dolby Accessibility Solution Server

One Dolby Accessibility Solution Server and one Wi-Fi router are installed in each theatre auditorium.

This chapter covers the following topics:

3.1 Additional hardware components

You need additional hardware components to perform the setup and configuration of the Dolby Accessibility Solution system. Dolby does not provide these additional hardware components.

- Computer mouse with USB-A connection
- Computer keyboard with USB-A connection
- Computer monitor with High-Definition Multimedia Interface (HDMI) connection
- Depending on the region, a Wi-Fi router may not be provided. Refer to Section 2.4.1 for the recommended Wi-Fi routers.

Related information

Wi-Fi router

3.2 Installing the Dolby Accessibility Solution Server in an auditorium

You must install the Dolby Accessibility Solution Server with a digital cinema server in the projection booth or projector cabinet. Non-digital cinema servers are not supported with this solution.

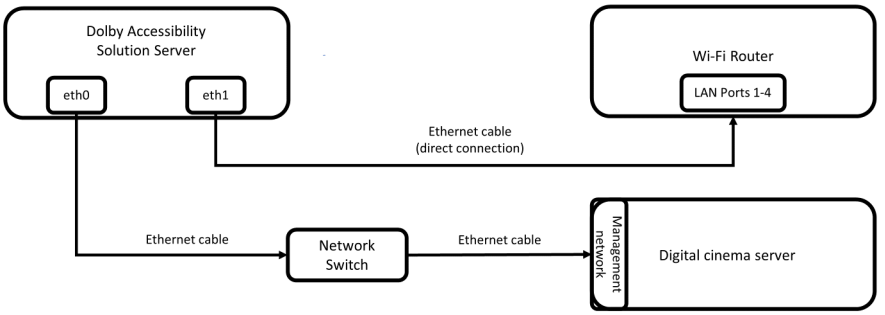
Procedure

1. Place the Dolby Accessibility Solution Server in a secure, dry, and well-ventilated environment.
2. Connect an Ethernet cable to the **ETH-0** port on the Dolby Accessibility Solution Server. Connect the other end directly to the digital cinema server or to an available port on the network switch that communicates with the digital cinema server.

   If the digital cinema server specifies certain Ethernet ports for network traffic, then use the management/auditorium network for this step. If you are unsure about which network to use, contact your network administrator.
3. Connect an Ethernet cable to the **ETH-1** port on the Dolby Accessibility Solution Server and then connect the other end of the Ethernet cable to one of the Wi-Fi router Ethernet ports labeled 1-4.

   Note: On some Wi-Fi routers, the Ethernet ports might be labeled LAN 1-4.

Figure 6: Network diagram



4. Connect the Wi-Fi router to a power source and then verify that the switch is in the on position.
   We recommend that the Wi-Fi router be mounted in the highest possible point in the installation location, and as close to the auditorium as possible. The router can be placed in the auditorium after testing/installation is complete. We do not recommend installing the router inside a metal enclosure, as this will impact transmission strength.
5. Connect the keyboard, monitor, and mouse to the Dolby Accessibility Solution Server.
6. Connect the power cable to a power supply and the power supply to the Dolby Accessibility Solution Server.
   The Dolby Accessibility Solution Server powers on by itself, and the light flashes green on the front panel. If the Dolby Accessibility Solution Server does not power on, press the power button.

4

Configuring the Dolby Accessibility Solution audio

The Hearing-Impaired audio, Visually Impaired-Narration audio, and Sign Language Video (SLV) data from the digital cinema server are routed to the Dolby Accessibility Solution Server.

This chapter covers the following topics:

4.1 Connecting audio from a cinema server with an RJ-45 output

For much of accessibility to work, the audio from channels 7 and 8, or 15 and 16 must be connected to the Dolby Accessibility Solution Server. Channels 1-6, and 9-14 contain main audio and other data and should be routed to the cinema audio processor.

Procedure

1. Connect the AES channel 1-8 end of the audio Y-cable to the media block or digital cinema server and then connect the RCA cable end to the **CH 7-8** input on the Dolby Accessibility Solution Server.

   Note:

   Typically, the accessibility tracks are on channels 7, 8, 15, and 16. The audio Y-cables are designed to pass channel 7 for HI, channel 8 for VI-N and channel 15 for SLV (Sign Language Video) to the Dolby Accessibility Solution Server. If you are using any audio mapping in the digital cinema server to remove audio signals from channels 7, 8, 15, or 16, then the audio Y-cables will not function in your scenario. We recommend that you leave channels 7, 8, 15, and 16 unchanged. Alternatively, you could build an audio Y-cable that matches your setup needs.

2. Connect the AES channel 9-16 end of the second audio Y-cable to the media block or digital cinema server and then connect the RCA cable end to the **CH 15-16** input on the Dolby Accessibility Solution Server.
3. Connect the AES channel 1-6 out end of the audio Y-cable to the AES channel 1-8 input on the cinema audio processor. Connect the AES channel 9-14 out end of the second audio Y-cable to the AES channel 9-16 input on the cinema audio processor.

   If the cinema audio processor AES input is a 25-pin D-connector as opposed to RJ-45, then you will need to use a 25-pin D-connector to RJ-45 adapter. The 25-pin D-connector to RJ-45 adapter comes unpinned. You may need to consult the cinema audio processor documentation AES audio input information to pin the adapter.

   These audio Y-cables route channels 1-6 and channels 9-14 to the cinema audio processor and route channels 7 and 8 and 15 and 16 to the Dolby Accessibility Solution Server.

Figure 7: Digital cinema server with RJ-45 AES output and DB25 input cinema audio processor

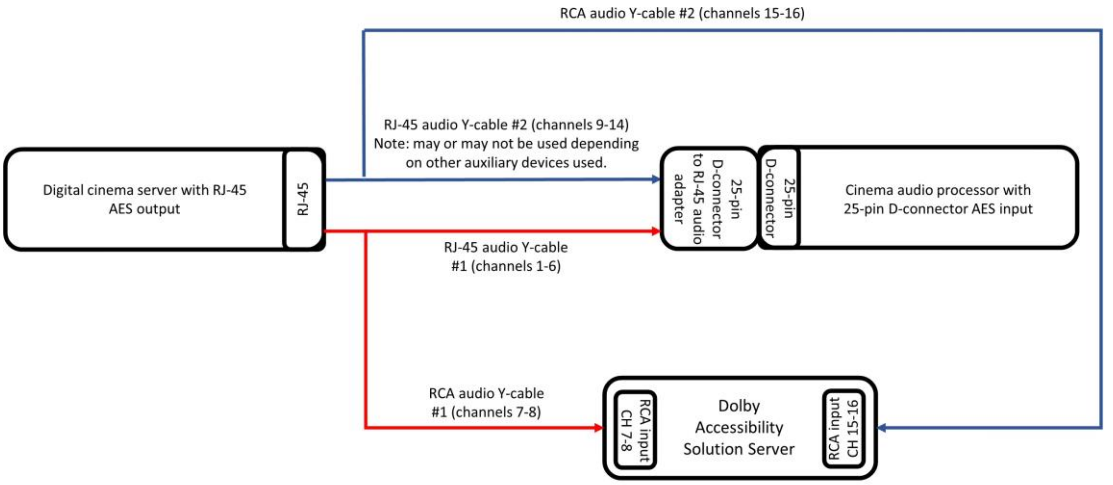
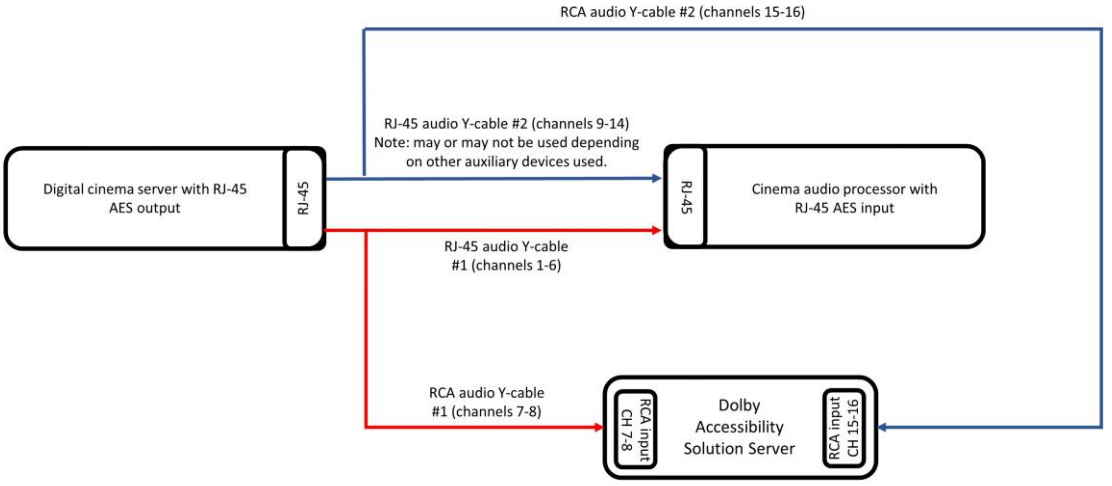


Figure 8: Digital cinema server with RJ-45 AES output and RJ-45 input cinema audio processor



Related information

Audio AES and adapter pinouts

4.2 Connecting audio from a cinema server with a 25-pin D-connector output

You can configure the audio from a digital cinema server with a 25-pin D-connector audio output to connect with the RJ-45 connections on the Dolby Accessibility Solution Server.

About this task

If the cinema audio processor AES input is a 25-pin D-connector as opposed to RJ-45, then you need to use a 25-pin D-connector to RJ-45 adapter. The 25-pin D-connector to RJ-45 adapter comes unpinned. You may need to consult the cinema audio processor documentation AES audio input information to pin this adapter. The Dolby Accessibility Solution Server ships with one 25-pin D-connector to RJ-45 adapter.

Procedure

1. Connect the 25-pin D-connector to RJ-45 adapter to the digital cinema server AES output.

   Note: The 25-pin D-connector to RJ-45 adapter comes unpinned. The 25-pin D-connector female to 25-pin D-connector female adapter (gender changer) is necessary when configuring a Dolby DSP100, DSS200, or DCP2000 to use the 25-pin D-connector to RJ-45 audio adapter. You may need to consult the cinema server documentation AES audio pinout information to pin this adapter.

2. Connect the AES channel 1-8 end of the audio Y-cable to the 25-pin D-connector to RJ-45 adapter AES channels 1-8 (side A) port and then connect the RCA cable end to the **CH 7-8** input on the Dolby Accessibility Solution Server.
3. Connect the AES channel 9-16 end of the second audio Y-cable to the 25-pin D-connector to RJ-45 adapter AES channels 9-16 (side B) port and then connect the RCA cable end to the **CH 15-16** input on the Dolby Accessibility Solution Server.
   Typically, the accessibility tracks are on channels 7, 8, 15, and 16. The audio Y-cables are designed to pass channel 7 and 8 for Hearing Impaired and Visually Impaired tracks, and channel 15 for Sign Language Video to the Dolby Accessibility Solution Server. If you are using any audio mapping in the digital cinema server to remove audio signals from channels 7, 8, 15, or 16, then the audio Y-cables will not function in your scenario. We recommend that you leave channels 7, 8, 15, and 16 unchanged. Alternatively, you could build an audio Y-cable that matches your setup needs.
4. Connect the AES channel 1-6 output end of the audio Y-cable to the AES channels 1-8 input on the cinema audio processor.

The audio Y-cable routes channels 1-6 to the cinema audio processor and routes channels 7 and 8 to the Dolby Accessibility Solution Server.

Figure 9: Digital cinema server with DB25 AES output and cinema audio processor with DB25 input

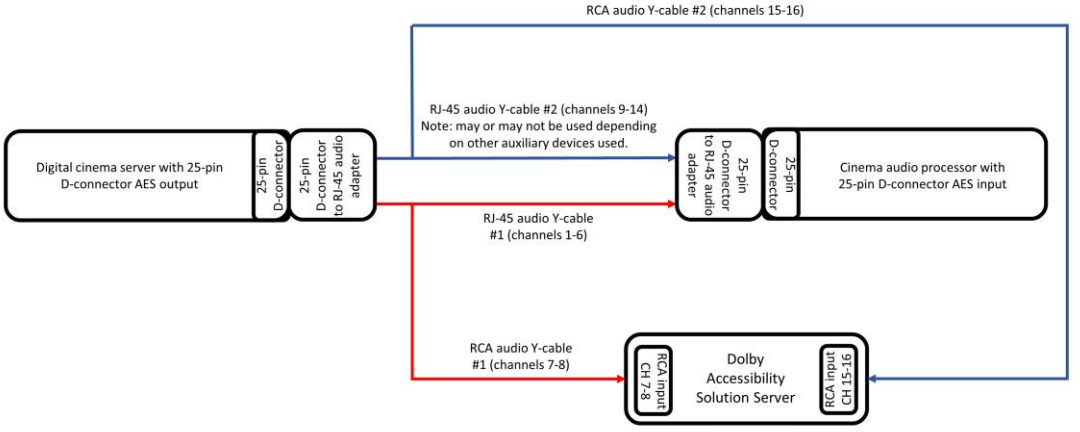
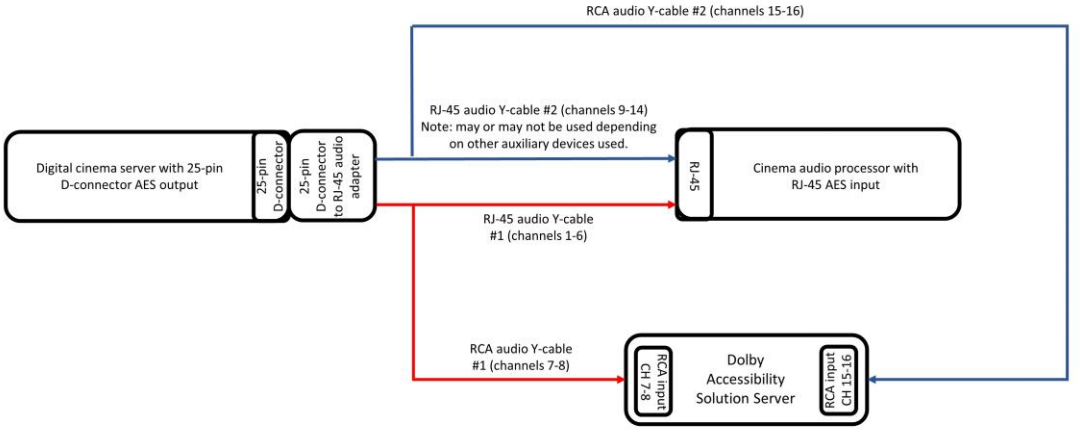


Figure 10: Digital cinema server with DB25 AES output and cinema audio processor with RJ-45 input



Related information

Audio AES and adapter pinouts

4.3 Connecting audio from a Dolby IMS3000 with audio processing

You can configure the Dolby Accessibility Solution Server to work with a Dolby IMS3000 that uses its internal audio processor. When the internal audio processor is engaged, the normal 1-16 AES3 (two RJ-45 connectors) or AES67 (one RJ-45 connector) are used to output the audio to the amplifier(s) or other downstream devices. For accessibility the IMS3000 will use the **AUX AES** RJ-45 port which must be configured.

About this task

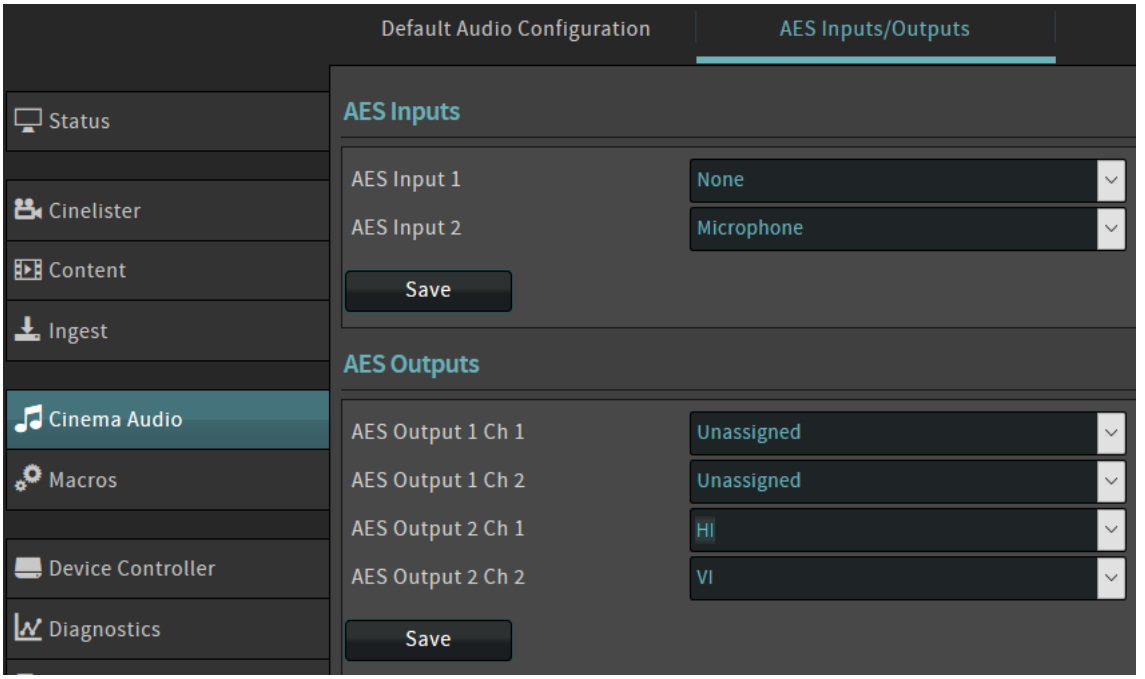
This task applies to the Dolby IMS3000 with the internal audio processor enabled. If you are configuring for an IMS3000 without audio processing enabled, refer to Section 4.1.

Procedure

2. To transmit Visually Impaired-Narrative (VI-N) and Hearing Impaired (HI) audio from the IMS3000 **AUX AES OUT** ports:
   a. Connect the AES channel 1-8 end of the audio Y-cable to the Dolby IMS3000 **AUX AES OUT** port and then connect the RCA cable end to the **CH 7-8** input on the Dolby Accessibility Solution Server.

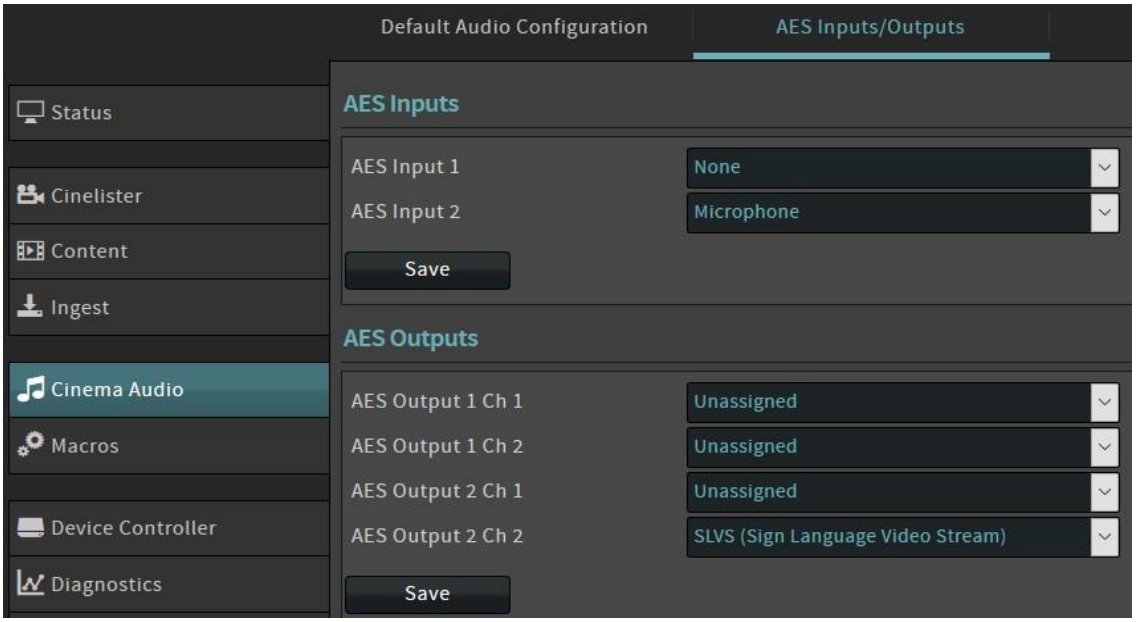
b. On the Dolby IMS3000 web user interface (UI), click **Cinema Audio,** and then click **AES Inputs/Outputs**.
c. Under the **AES Outputs** pane, set **AES Output 2 Ch 1** to **HI**. (not for use in Brazil)
d. Under the **AES Outputs** pane, set **AES Output 2 Ch 2** to **VI**.
e. Click **Save**.

Figure 11: IMS3000 web UI HI/VI configuration



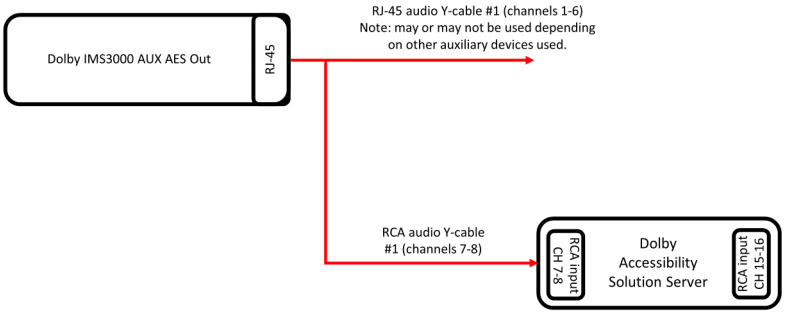
2. To transmit only a Sign Language Video (SLV) stream (only for Brazil):
   1. Connect the AES channel 9-16 end of the audio Y-cable to the Dolby IMS3000 **AUX AES OUT** port, and then connect the RCA cable end to the **CH 15-16** input on the Dolby Accessibility Solution Server.
   2. On the Dolby IMS3000 web UI, click **Cinema Audio**, and then click **AES Inputs/Outputs**.
   3. Under the **AES Outputs** pane, set **AES Output 2 Ch 2** to **SLVS (Sign Language Video Stream)**.
   4. Click **Save**.

Figure 12: IMS3000 web UI SLV configuration



3. To transmit both VI-N and SLV (only for Brazil):
   1. Create a custom cable for the Dolby IMS3000 **AUX AES** port based on the pinout information provided. For the list of Dolby IMS3000 **AES AUX** pinouts, see *Pinouts for the Dolby IMS3000 AES auxiliary input or output port* in Section 13.11.
   2. Depending on how the custom cable was created, go to the Dolby IMS3000 web UI and click **Cinema Audio**, click **AES Inputs/Outputs**, and then configure the **AES Outputs** to output **VI** and **SLVS** based on your custom cable.

Figure 13: Connecting audio from a Dolby IMS3000



Important:

The AES channels 1-6 and 9-14 ends of the audio Y-cables are not used for this installation. However, they may be used for Dolby IMS3000 auxiliary input or output.

Related information

Pinouts for the Dolby IMS3000 AES3 auxiliary input or output port

5

Configuring the Dolby Accessibility Solution with a Wi-Fi router

The Dolby Accessibility Solution Server **Ethernet 1** port is configured for use with a Wi-Fi router to transmit the accessibility information to the Dolby Accessibility Solution Receiver(s) in the auditorium. The Dolby Accessibility Solution Server **Ethernet 1** default Internet Protocol address (IP address) is 192.168.0.50.

Below, click on the model of router/region you are using for the instructions.

Important: The Dolby Accessibility Solution DAS-200 / DAS-210 Receiver Tablet model VT-TAB55-RK68-DB8 does not use Wi-Fi 2.4 GHz CH12 and CH13 channels. When configuring a router for Wi-Fi 2.4 GHz (Brazil only) with this receiver, do not use the CH12 and CH13 channels.

In some situations, a user may wish to install Dolby Accessibility Solution in a complex network environment which uses a single SSID and previously installed Wi-Fi infrastructure. For information on how to do this, proceed to section 8.

Note: if you are using another Wi-Fi router there may be additional changes that are needed to make the solution work. Multicast Enhancement, IGMPv3, are options to investigate.

5.1 Wi-Fi router SSID overview

It is important to correctly configure the Wi-Fi router service set identifier (SSID) to ensure proper communication for the Dolby Accessibility Solution Receiver.

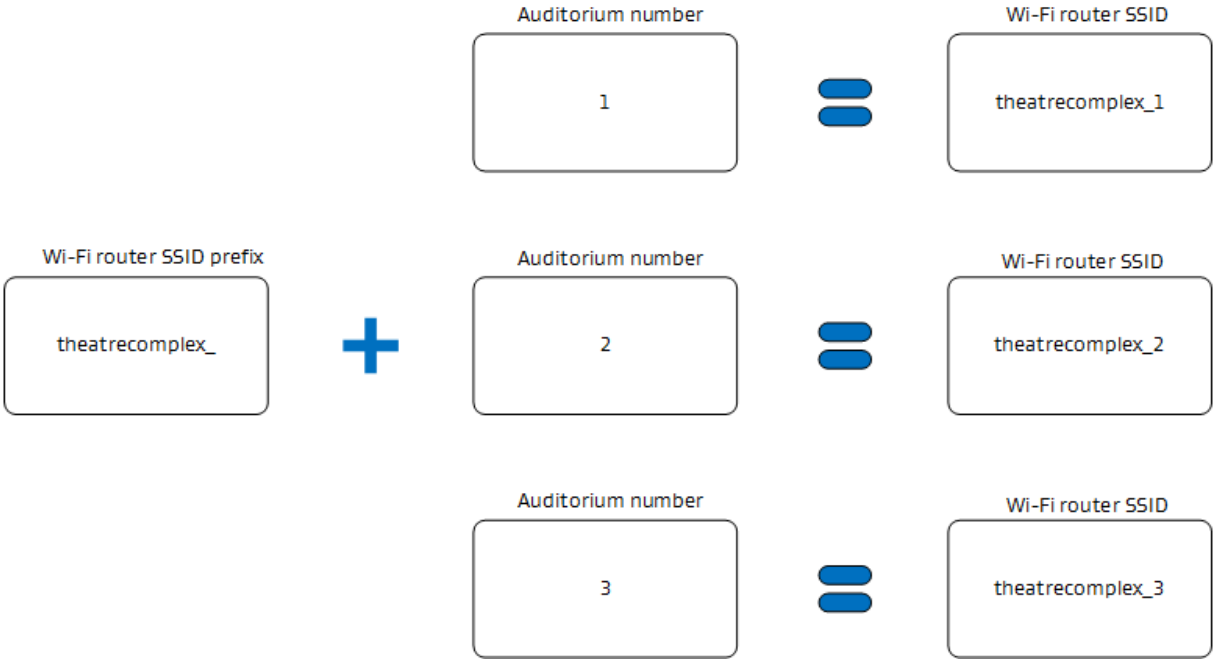
The beginning of the Wi-Fi router SSID network name (prefix) is shared across the theatre complex. Then a unique auditorium number is added at the end. Only numerical values between 1 and 32 are allowed in the auditorium number portion of the SSID.

The auditorium number cannot begin with a 0.

The Wi-Fi router SSID must have a prefix followed by the auditorium number. The prefix must be common to all Wi-Fi routers configured for the Dolby Accessibility Solution system. For example, **theatrecomplex_1**, where **theatrecomplex_** represents the prefix and **1** represents the auditorium number.

This diagram provides a simple illustration for configuring the Wi-Fi router SSID.

Figure 14: Wi-Fi router SSID diagram



5.2 Configuring the TP-Link Archer C50 Wi-Fi router SSID for Brazil

You must configure the Wi-Fi router for Brazil. If you are not using the TP-Link Archer C50 Wi-Fi router, skip section 5.2.

5.2.1 Changing the Wi-Fi router default password

You can change the default password for the Wi-Fi router to prevent unauthorized access.

About this task

We recommend that you change the password to prevent unauthorized access.

Procedure

1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. From the Dolby Accessibility Solution Server desktop, open the Firefox web browser, and then enter the IP address for the Wi-Fi router.
   The default IP address for the Wi-Fi router is 192.168.0.1.
3. At the prompt, enter the default administrator login credentials for the Wi-Fi router.
   The default username is **admin**, and the default password is **admin**.

4. In the Wi-Fi router web UI, click **System Tools**.
5. In the **Old Username** and **Old Password** fields, enter the current username and password for the Wi-Fi router.
6. In the **New Username** and **New Password** fields, enter the new username and password for the Wi-Fi router.
7. In the **Confirm New Password** field, enter the new password again to confirm.
8. When you finish, click **Save**.
9. Save the new username and password in a location where it can be recalled easily.

5.2.2 Configuring the Wi-Fi router SSID

You must configure the Wi-Fi router for an SSID to communicate with Dolby Accessibility Solution Receivers. Proceed to step 4 if you are already logged into the server and Wi-Fi router.

Procedure

1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. From the Dolby Accessibility Solution Server desktop, open the Firefox web browser, and then enter the IP address for the Wi-Fi router.

   The default IP address for the Wi-Fi router is 192.168.0.1.
3. At the prompt, enter the default administrator login credentials for the Wi-Fi router.

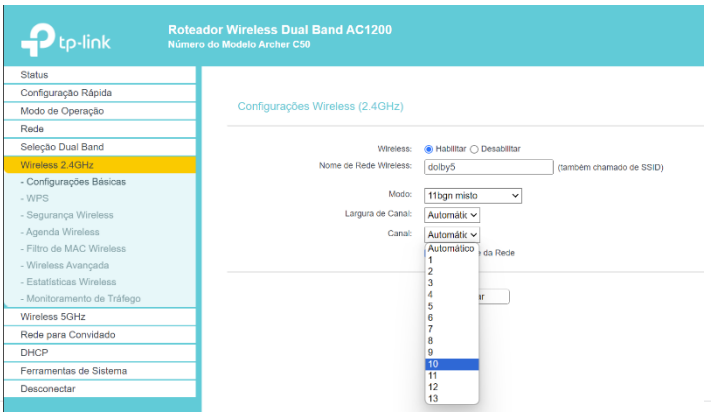
   The default username is **admin**, and the default password is **admin**.
4. In the Wi-Fi router web UI, click **Wireless 2.4GHz > Basic Settings**.
5. In the **Wireless** field, select the option for **Enable**.

Figure 15: Click Enable in the Wireless field

6. In the **Wireless Network Name** field, enter the SSID.
7. Verify that the **Enable SSID Broadcast** option is not selected, and then click **Save**.

Important: The Dolby Accessibility Solution DAS-200 / DAS-210 Receiver (tablet model VT-TAB55-RK68-DB8) does not use Wi-Fi 2.4 GHz CH12 and CH13 channels. When configuring a router for Wi-Fi 2.4 GHz (Brazil only) to be used with DAS-200 / DAS-210 receivers, select any channel other than CH12 or CH13 from the **Channel** drop down list, and then click **Save**.

Figure 16: Wi-Fi channel selection



8. From the left pane, click **Wireless Security**.
9. In the **Wireless Password** field, enter a new Wi-Fi router SSID password, and then click **Save**.

Important: The Wi-Fi router SSID password must be the same for all Dolby Accessibility Solution Wi-Fi routers in the theatre complex, but different from the Wi-Fi administration password. We recommend that you record the password for future use.

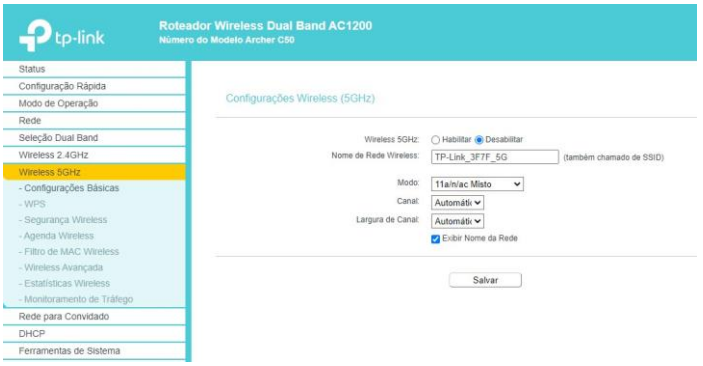
Figure 17: Enter SSID password

10. In the **Wireless Advanced** page, ensure the **RTS Threshold** is higher than the **Fragmentation Threshold** value by one point. For example, the **Fragmentation Threshold** value should be **2345** and the **RTS Threshold** value should be **2346**.

Figure 18: Enter RTS threshold

11. To complete the wireless setup:
    a. In the Wi-Fi router web UI, click **Wireless 5GHz**.
    b. In the **Wireless 5GHz** field, verify that the option is set to **Disable**, and then click **Save**.

Figure 19: Verify Wireless 5G Settings



5.3 Configuring the TP-Link Archer C80 Wi-Fi router for countries other than Brazil

You must configure the TP-Link Archer C80 Wi-Fi router for countries other than Brazil. If you are not using the TP-Link Archer C80 Wi-Fi router, skip section 5.3.

5.3.1 Configuring the Wi-Fi router password

You must configure the Wi-Fi router password when you connect to its web interface for the first time.

About this task

Configure the Wi-Fi password.

Procedure

1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. Log into the Dolby Accessibility Solution Server desktop, open the Firefox web browser, and then enter the default IP address for the Wi-Fi router.

   The default IP address for the Wi-Fi router is 192.168.0.1.
3. The first time that you connect to the Wi-Fi router, you must set a new password for the administrator. In the **Password** field, enter a password for the Wi-Fi router.
4. In the **Confirm Password** field, enter the same password again to confirm.

5.3.2 Configuring the Wi-Fi router SSID

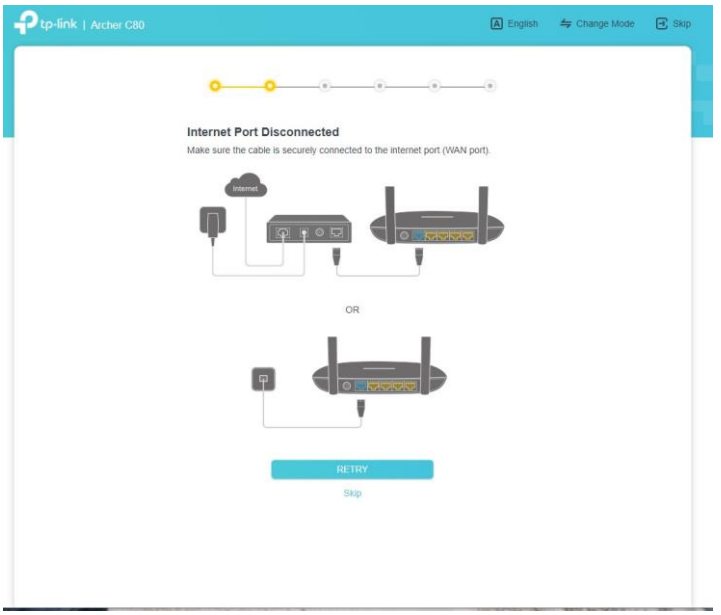
You must configure the Wi-Fi router for an SSID to communicate with Dolby Accessibility Solution Receivers. If you are already logged into the Dolby Accessibility Server and Wi-Fi router, skip to step 4.

Procedure

1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. From the Dolby Accessibility Solution Server desktop, open the Firefox web browser, and then enter the IP address for the Wi-Fi router.

   The default IP address for the Wi-Fi router is 192.168.0.1.
3. At the prompt, enter the administrator login credentials that you set up previously for the Wi-Fi router.
4. In the Wi-Fi router web UI, the **Quick Setup** default screen appears. If this is not the first login, select the **Quick Setup** tab.
5. In the **Time Zone** field, select the appropriate time zone for your country, and then click **Next**.
6. When a message appears that says **Internet Port Disconnected**, ignore it, and then click **Skip** at the bottom of the screen.

Figure 20: Click Skip in the Internet Port Disconnected screen

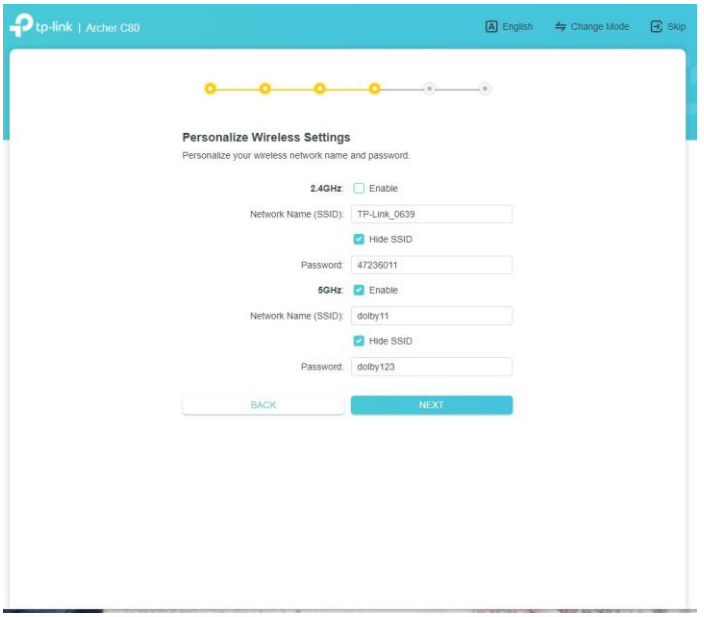


7. In the **Personalize Wireless Settings** screen:
   a. Uncheck the **Enable** checkbox next to **2.4 GHz**.
   b. Check the **Enable** checkbox next to **5 GHz**.
   c. In the **Network Name (SSID)** field under **5 GHz**, enter the SSID.
   d. Check **Hide SSID** under **5 GHz**.
   e. In the **Password** field under **5 GHz**, enter a new Wi-Fi router SSID password.

      Important: The Wi-Fi router SSID password must be the same for all Dolby Accessibility Solution Wi-Fi routers in the theatre complex, but different from the Wi-Fi administration password. We recommend that you record the password for future use.

   f. Click **Next**.

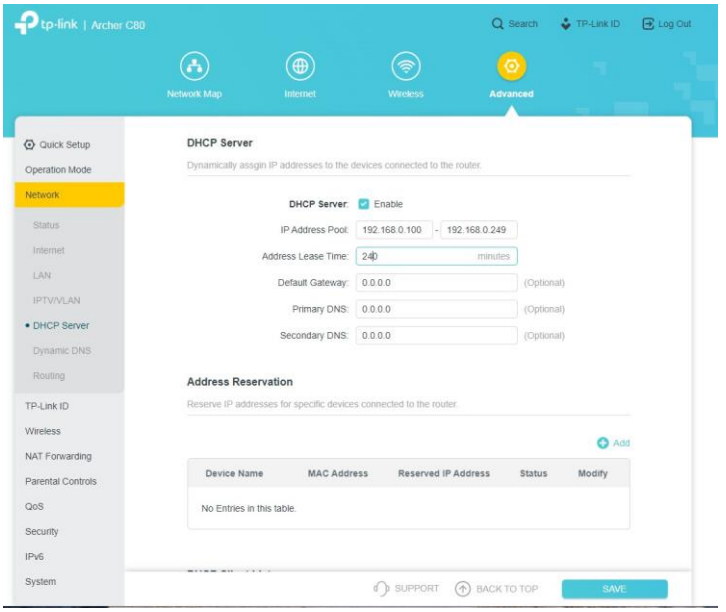
Figure 21: Personalize wireless settings and password



8. In the **Setup Complete** screen, click **Next**.
9. To complete the configuration, click the **Advanced** tab.
10. Click **Network** in the left pane, and then select **DHCP Server**.

11. In the **Address Lease Time** field, change the time to 240 minutes, and then click **Save**.

Figure 22: Enter Address Lease Time for DHCP Server



5.4 Configuring the TP-Link Archer AX10 Wi-Fi router for countries other than Brazil

You must configure the TP-Link Archer AX10 Wi-Fi router for countries other than Brazil. If you are not using the TP-Link Archer AX10 Wi-Fi router, skip section 5.4.

5.4.1 Configuring the Wi-Fi router password

You must configure the Wi-Fi router password when you connect to its web interface for the first time.

About this task

Configure the Wi-Fi password.

Procedure

1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. Log into the Dolby Accessibility Solution Server desktop, open the Firefox web browser, and then enter the default IP address for the Wi-Fi router.

   The default IP address for the Wi-Fi router is 192.168.0.1.
3. The first time that you connect to the Wi-Fi router, you must set a new password for the administrator. In the **Password** field, enter a password for the Wi-Fi router.
4. In the **Confirm Password** field, enter the same password again to confirm.

5.4.2 Configuring the Wi-Fi router SSID

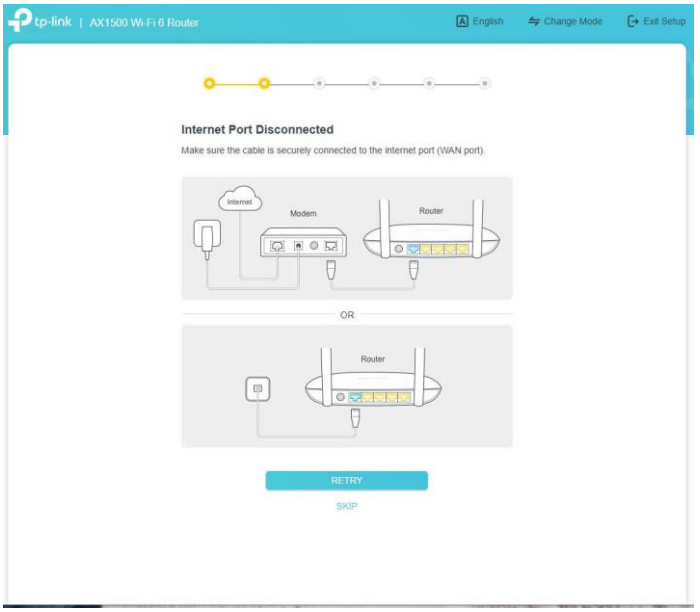
You must configure the TP-Link Archer AX10 Wi-Fi router for an SSID to communicate with Dolby Accessibility Solution Receivers. If you are already logged into the Dolby Accessibility Server and connected to the Wi-Fi router, skip to step 4.

Procedure

1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. From the Dolby Accessibility Solution Server desktop, open the Firefox web browser, and then enter the IP address for the Wi-Fi router.

   The default IP address for the Wi-Fi router is 192.168.0.1.
3. At the prompt, enter the administrator login credentials that you set up previously for the Wi-Fi router.
4. In the Wi-Fi router web UI, the **Quick Setup** default screen appears. If this is not the first login, select the **Quick Setup** tab.
5. In the **Time Zone** field, select the appropriate time zone for your country, and then click **Next**.
6. When a message appears that says **Internet Port Disconnected**, ignore it, and then click **Skip** at the bottom of the screen.

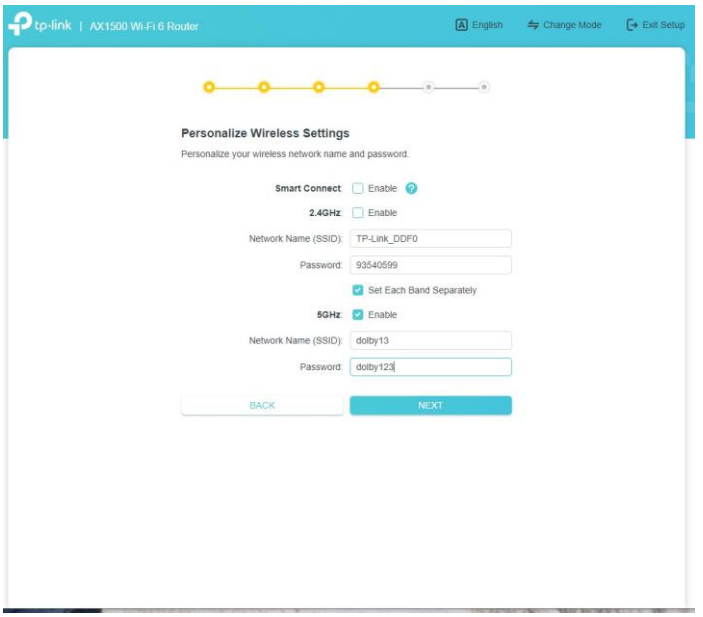
Figure 23: Internet Port Disconnected message



7. In the **Personalize Wireless Settings** screen:
   a. Uncheck the **Enable** checkbox next to **Smart Connect**.
   b. Uncheck the **Enable** checkbox next to **2.4 GHz**.
   c. Check the **Enable** checkbox next to **5 GHz**.
   d. In the **Network Name (SSID)** field under **5 GHz**, enter the SSID.
   e. In the **Password** field under **5 GHz**, enter a new Wi-Fi router SSID password.

Important: The Wi-Fi router SSID password must be the same for all Dolby Accessibility Solution Wi-Fi routers in the theatre complex, but different from the Wi-Fi administration password. We recommend that you record the password for future use.

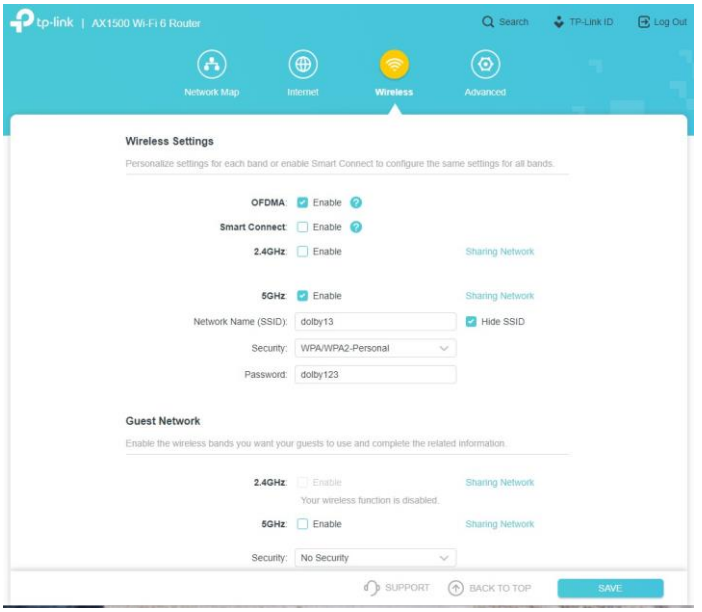
Figure 24: Personalize Wireless Settings screen



f. Click **Next**.

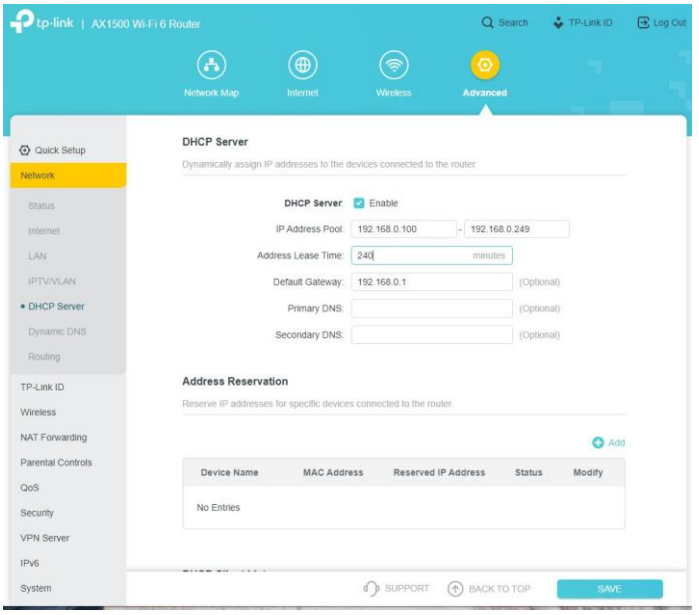
8. In the **Setup Complete** screen, click **Next**.
9. Click the **Wireless** tab.
10. In the **Wireless Setting** screen, check the **Hide SSD** checkbox next to the **Network Name (SSID)** field under the **5 GHz** section, and then click **Save**.

Figure 25: Wireless Settings screen



11. Click the **Advanced** tab.
12. Click **Network** in the left pane, and then select **DHCP Server**.
13. In the **Address Lease Time** field, change the time to 240 minutes, and then click **Save**.

Figure 26: Enter Address Lease Time for DHCP Server



6

Configuring the Dolby Accessibility Solution Server with a digital cinema server

The Dolby Accessibility Solution Server is configured with a digital cinema server inside an auditorium booth.

- Configuring the Dolby Accessibility Server Ethernet 0 port
- Adding the Server IP address to the web UI
- Configuring the general settings for the Dolby Accessibility Solution Server

6.1 Configuring the Dolby Accessibility Server Ethernet 0 port

You must configure the Ethernet 0 (**ETH0**) port on the Dolby Accessibility Solution Server to allow it to communicate with the digital cinema server.

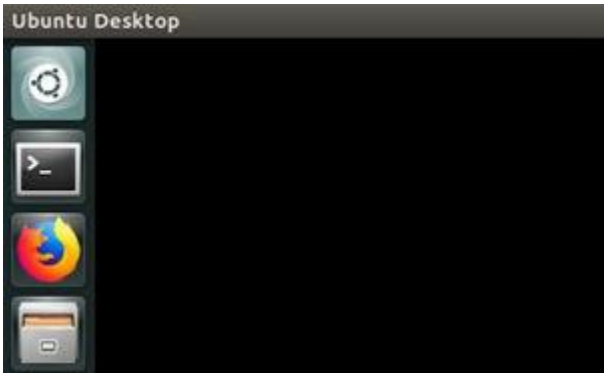
About this task

You will change the IP address of the Ethernet 0 port to be within the same subnetwork as the digital cinema server on the Management Network. If you are unsure about which IP address to use, contact your network administrator. The Dolby Accessibility Solution Server Ethernet 0 default IP address is 192.168.100.75.

Procedure

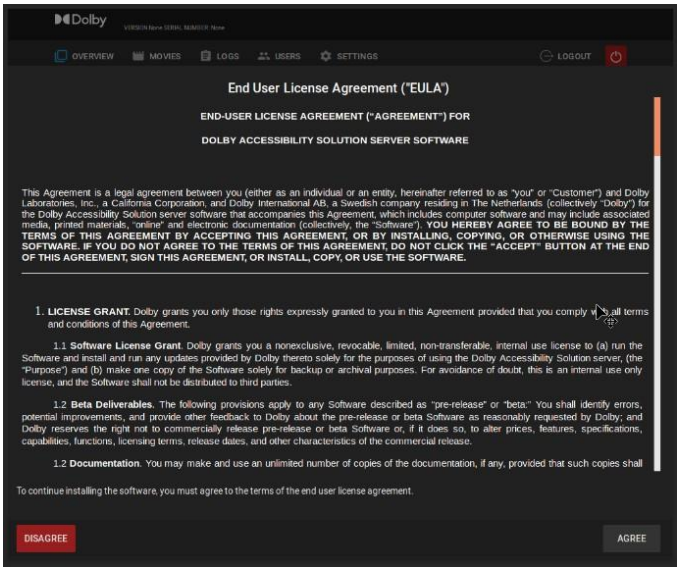
1. Log in to the Dolby Accessibility Solution Server with password **xAwsPR9-dL**. No username is required.
2. From the Dolby Accessibility Solution Server desktop upper-left section, open the Firefox web browser.

   Figure 27: Web browser

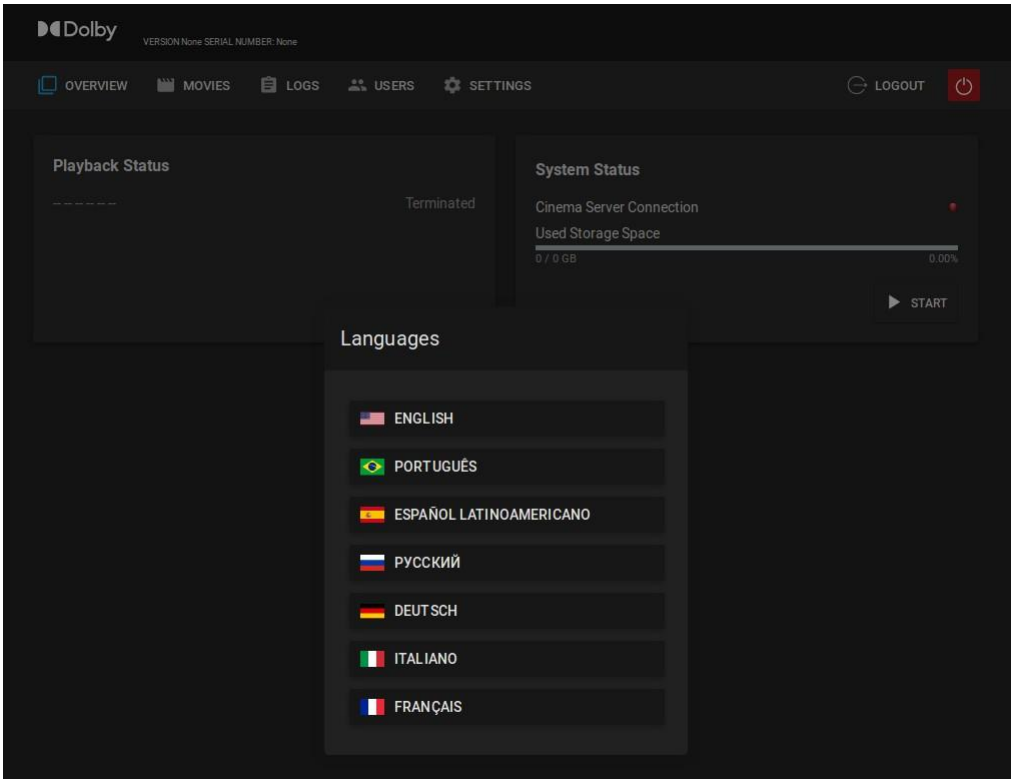
3. Type **localhost**, and then press Enter.
   The Dolby Accessibility Solution Server web UI is displayed.
4. On the Dolby Accessibility Solution Server web UI login screen, enter the username and password, and then click **LOGIN**.
   The default username is **admin**, and the default password is **admin**.
5. When the End User License Agreement (EULA) appears, read the text, and then click **AGREE**.
   The EULA appears during the Dolby Accessibility Solution Server initial setup and configuration process and appears when you update the Dolby Accessibility Solution Server software.

   Figure 28: End User License Agreement screen

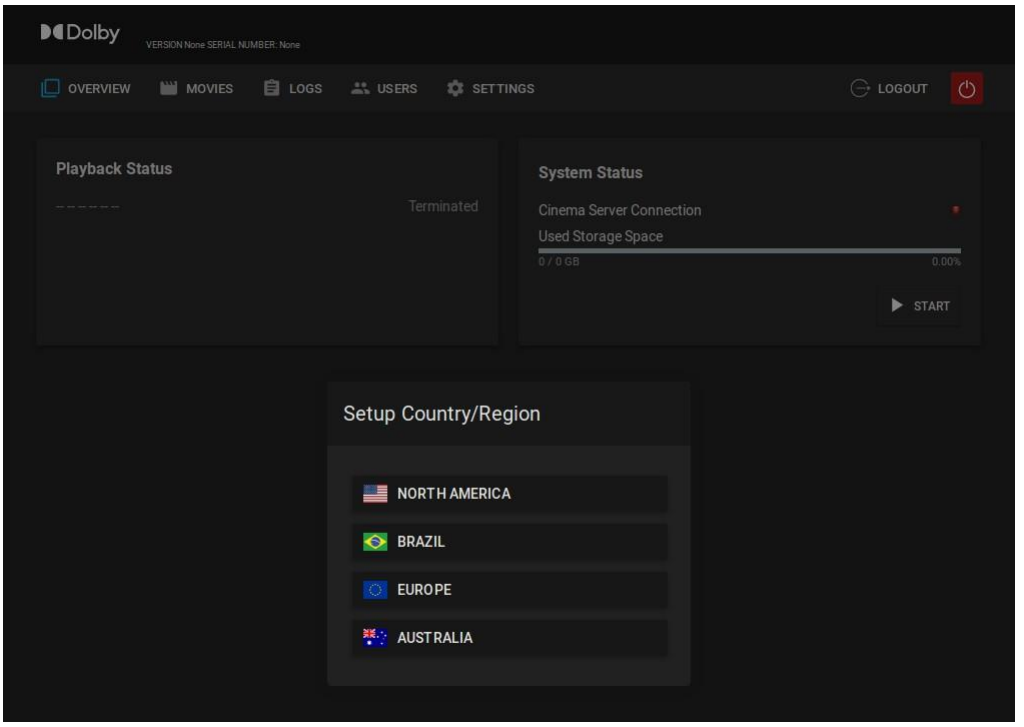
6. After accepting the EULA, the **Languages** screen appears. Select the correct language to use for the web UI and the Receivers connecting to this auditorium.

Figure 29: Languages screen



7. After selecting the language, the **Setup Country/Region** screen appears. Select the correct Country/Region to configure the supported accessibility resources.

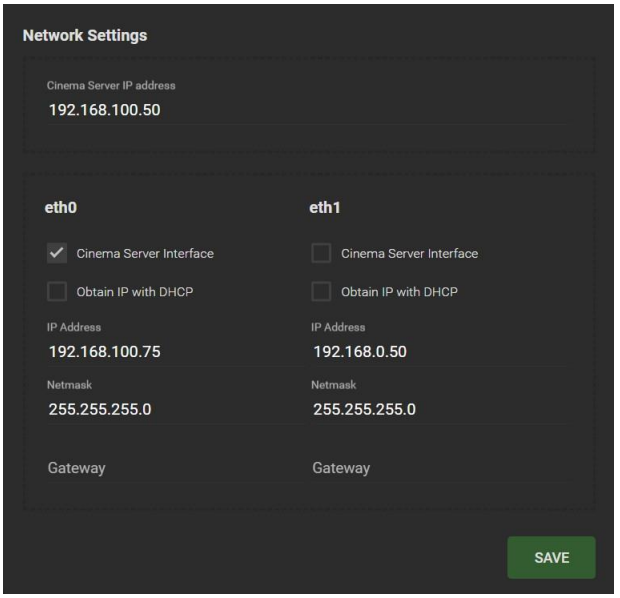
Figure 30: Setup Country /Region screen



8. From the home screen, click **Settings**, and then click **Network**.

The **Network Settings** screen appears.

Figure 31: Network Settings screen



9. Under the **eth0** column, verify that the option for **Obtain IP with DHCP** is unselected.
10. Under the **eth0** column, in the **IP Address** field, enter a new IP address.

    Note: The IP address that you enter must be on the management or control network that connects to the digital cinema server.

11. Click **SAVE**.

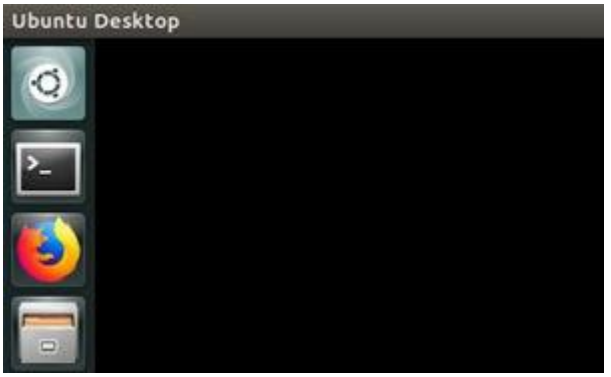
6.2 Adding the Server IP address to the web UI

For the Dolby Accessibility Solution Server to retrieve accessibility data from the digital cinema server, you must add the digital cinema server IP address to the web UI to establish network communication.

Procedure

1. From the Dolby Accessibility Solution Server desktop upper-left section, open the Firefox web browser.

   Figure 32: Web browser

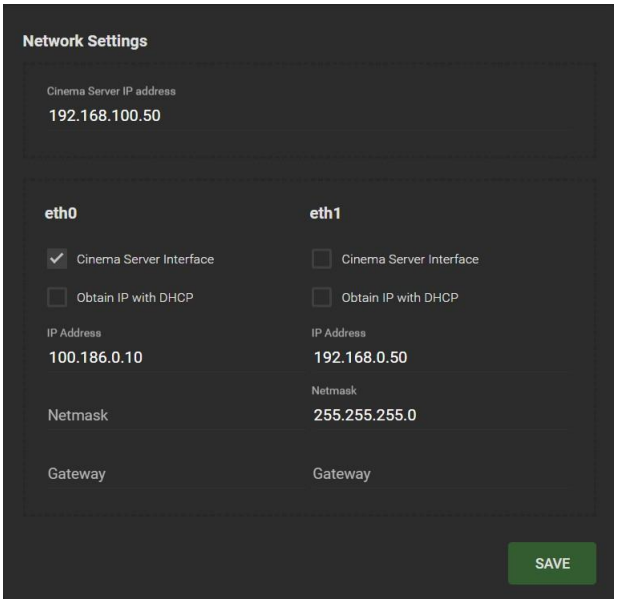


2. Type **localhost**, and then press Enter.
   The Dolby Accessibility Solution Server web UI is displayed.
3. On the Dolby Accessibility Solution Server web UI login screen, enter the default username and password, and then click **LOGIN**.

   The default username is **admin**, and the default password is **admin**.

4. From the home screen, click **Settings**, and then click **Network**.
5. In the **Cinema Server IP address** field, enter the digital cinema server IP address that is used on your management network.

Figure 33: Enter Cinema Server IP address in Network Settings screen



6. Click **SAVE**.
7. To verify the connection between the Dolby Accessibility Solution Server and the digital cinema server:
   a. In the Dolby Accessibility Solution Server web UI, click **OVERVIEW**.
   b. Under the **System Status** section, next to **MediaBlock connection**, confirm that a green dot is present.

Note: It may take up to a minute for the system status to update.

Figure 34: System status

6.3 Configuring the general settings for the Dolby Accessibility Solution Server

You can configure the auditorium name, idle text, no caption text, and close captioning delay for the Dolby Accessibility Solution Server.

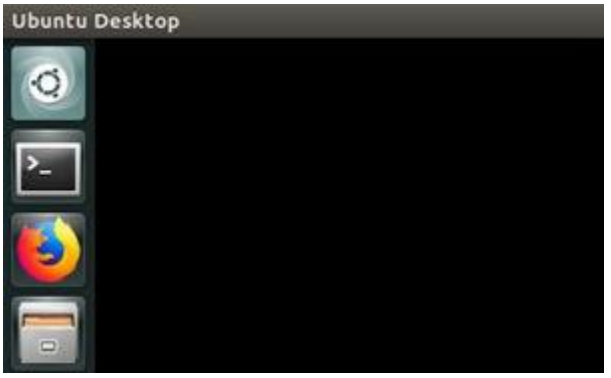
Prerequisites

You must have previously configured the IP address for the Dolby Accessibility Solution Server.

Procedure

1. From the Dolby Accessibility Solution Server desktop upper-left section, open the Firefox web browser.

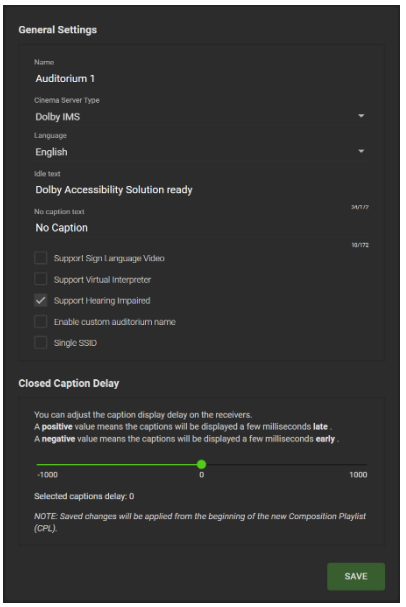
   Figure 35: Web browser

2. Type **localhost**, and then press Enter.
   The Dolby Accessibility Solution Server web UI appears.
3. On the Dolby Accessibility Solution Server web UI login screen, enter the username and password, and then click **LOGIN**.

   The default username is **admin**, and the default password is **admin**.
4. Click **SETTINGS**, and then click **General**.
   The **General Settings** screen appears.

   Figure 36: General Settings screen

5. Under the **Name** field, enter a new name to indicate the auditorium name and/or number. The name entered here is used to identify the auditorium to which this Dolby Accessibility Solution Server is configured. The name is displayed in the Web UI and in the Detailed Report. It does not affect the SSID name.

6. From the **Cinema Server Type** list, select the type of server that will connect with the Dolby Accessibility Solution Server.

   If this setting is left as **Unknown**, the system may not function properly.

   Note: For GDC servers, the HI and VI channels may not be on 7/8. Check your GDC documentation for more information. Additionally, GDC needs to have a box ticked for SMPTE 430, and the connection to the DAS server must be on eth2 to serve CCAP data.
7. From the **Language** list, select the language to be displayed on the receiver user interface.
8. In the **Idle text** field, enter new idle text.

   The **Idle text** field is used to relay information when the Dolby Accessibility Solution Receiver is connected to an Accessibility Server, but no accessibility content is currently playing (digital cinema server is in idle mode). The text entered in this field is limited to 172 characters. To prevent improper display of information on the Dolby Accessibility Solution Receiver, do not enter more than 172 characters.
9. In the **No caption text** field, enter any text.

   The **No caption text** field is used to relay information if no closed captioning is present during the current clip being played (the digital cinema server is playing, but no accessibility track is available). This would occur in advertisements, trailers, or any content playing on the digital cinema server that does not have closed captioning and is useful information to a patron who may believe that something is wrong with the accessibility equipment. The text entered in this field is limited to 172 characters.

   The **Support Sign Language Video** and **Support Virtual Interpreter** options are enabled only for the Brazilian region when the language is set to Portuguese and the **Country/Region** is set to Brazil. For all other regions, the **Support Sign Language Video** and **Support Virtual Interpreter** are unchecked and disabled.

   The **Support Hearing Impaired** option is disabled for the Brazilian region when the language is set to Portuguese and the **Country/Region** is set to Brazil. For all other regions, **Support Hearing Impaired** is checked and enabled.
10. Select **Enable custom auditorium name** if you need to create a specific auditorium name. The text entered in this field is displayed on the Dolby Accessibility Solution Receiver **Auditorium selection screen.** This option is limited to eight alphanumeric characters.
11. Use the **Closed Caption Delay** option if you need to adjust the delay when closed captions appear on the Dolby Accessibility Solution Receiver to ensure synchronization with the movie. Normally this option is not needed.
12. Click **SAVE**.

7

Configuring the Dolby Accessibility Solution Receiver

Each Dolby Accessibility Solution Receiver must be configured prior to operation. After the initial setup, there is no need to perform the configuration again.

This chapter covers the following information:

7.1 Charging the Dolby Accessibility Solution Receiver

You must charge the Dolby Accessibility Solution Receiver prior to initial use and when the battery is low or depleted.

About this task

You must charge the Dolby Accessibility Solution Receiver for eight hours before initial operation.

Attention:

Once the receiver is fully charged, disconnect it from the charger. Leaving it plugged in after it is fully charged may damage the battery.

Procedure

1. To power on the Dolby Accessibility Solution Receiver, press and hold the power button.
2. Connect the USB cable to the Dolby Accessibility Solution Receiver.
3. Connect the USB cable to a power source or computer USB port.
4. When the Dolby Accessibility Solution Receiver is fully charged, disconnect the USB cable from the Dolby Accessibility Solution Receiver first, and then unplug it from the power source.

   The battery charge status level is indicated by an icon.
5. To power off the Dolby Accessibility Solution Receiver, press and hold the power button.

7.2 Changing the SSID for the Dolby Accessibility Solution Receiver

You must change the SSID for each Dolby Accessibility Solution Receiver to match the SSID prefix of the Wi-Fi router(s).

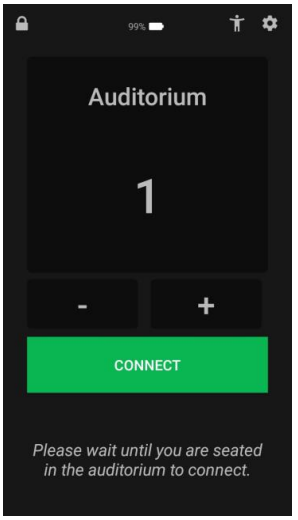
About this task

After the Dolby Accessibility Solution Receiver is initially configured, you do not need to reconfigure it unless the Wi-Fi router SSID changes.

Procedure

1. To power on the Dolby Accessibility Solution Receiver, press and hold the power button, if needed.
2. From the Dolby Accessibility Solution Receiver home screen, in the upper-right corner, tap the gears icon.

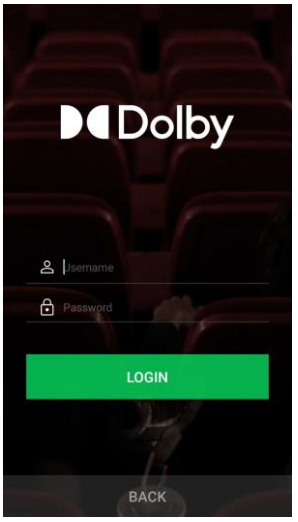
Figure 37: Tap home screen gears icon



3. Enter the default username and password, and then tap **LOGIN**.

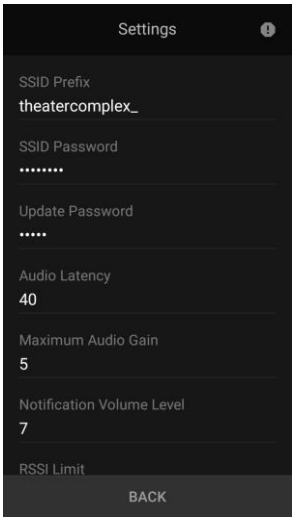
The default username is **admin**, and the default password is **signs**.

Figure 38: Dolby Accessibility Solution Receiver login screen



The **Settings** screen appears.

Figure 39: Settings screen



4. In the **Settings** screen **SSID Prefix** field, enter the Wi-Fi router SSID except for the auditorium number.

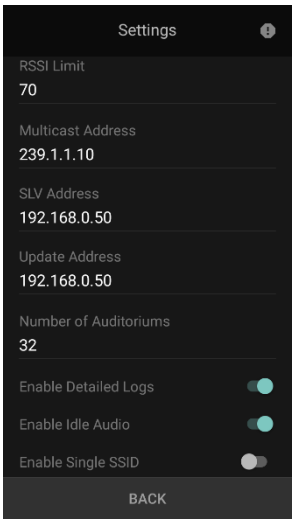
   Important: For example, enter **theatrecomplex_** for the SSID prefix. When you attempt to connect the Dolby Accessibility Solution Receiver to a specific auditorium number, it tries to connect to a Wi-Fi router signal that has the Wi-Fi router SSID prefix and the auditorium number selected.

5. In the **SSID Password** field, enter the SSID password for the Wi-Fi router.
6. If needed, in the **Audio Latency** field, enter a numeric value, between 0 and 350 milliseconds to adjust the Dolby Accessibility Solution Receiver HI audio delay or VI-N audio delay, to ensure synchronization with the movie. The default value is 40 milliseconds and does not normally need to be changed.
7. In the **Multicast Address** field, verify that the default multicast IP address is 239.1.1.10.

   Note: The default multicast address is 239.1.1.10 and does not normally change. If there is a need to change the multicast address, it must match what is set on the Dolby Accessibility Solution Server's settings.

8. In the **Update Address** field, enter the Dolby Accessibility Solution Server IP address.

Figure 40: Update Address Setting

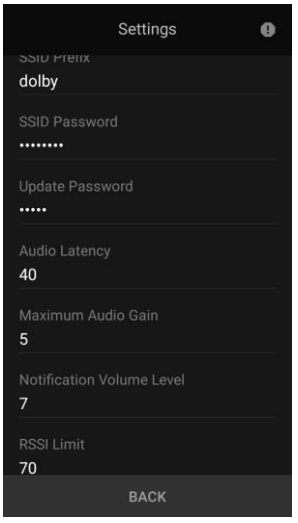


Note: All Dolby Accessibility Solution Receivers are updated using a connection to the Dolby Accessibility Solution Server. We recommend identifying a Dolby Accessibility Solution Server that will be used to update the Dolby Accessibility Solution Receivers. The IP address entered here is the IP address of that Dolby Accessibility Solution Server **ETH-1** port.

9. Ensure that the **RSSI Limit** is set to 70, as shown in the following figure. This setting does not normally need to be adjusted. RSSI stands for “received signal strength indicator” and this setting determines how weak the Wi-Fi signal can be before the Dolby Accessibility Solution receiver will disconnect. Entering a higher number will allow the receiver to tolerate a weaker Wi-Fi signal.
10. To save any changes, tap **BACK**.

Results

Figure 41: RSSI Limit Setting



This completes the Dolby Accessibility Solution Receiver initial setup and configuration.

7.3 Limiting the number of auditoriums displayed on Auditorium connection screen

You can limit the number of auditoriums that will be shown on the Dolby Accessibility Solution Receiver connection screen.

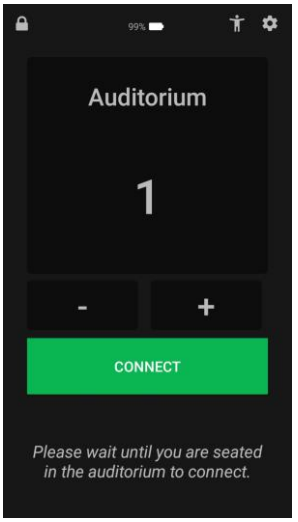
About this task

The number of auditoriums displayed on the Dolby Accessibility Solution receiver auditorium connection screen is set in the settings menu of the Dolby Accessibility Solution receiver. This must be done on all receivers in the complex to ensure the same experience for guests using the system.

Procedure

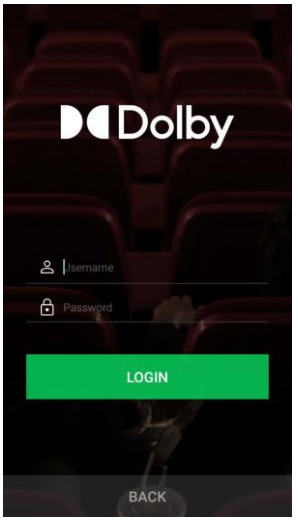
1. To power on the Dolby Accessibility Solution Receiver, press and hold the power button, if needed.
2. From the Dolby Accessibility Solution Receiver home screen, in the upper-right corner, tap the gears icon.

Figure 42: Tap home screen gears icon



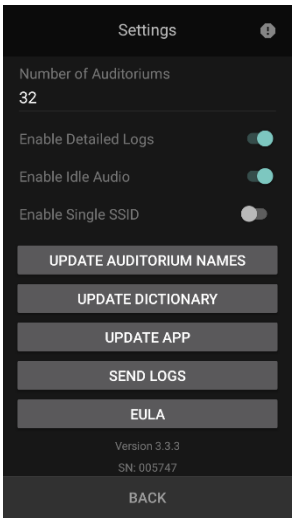
3. Enter the default username and password, and then tap **LOGIN**.
   The default username is **admin**, and the default password is **signs**.

Figure 43: Dolby Accessibility Solution Receiver login screen



The **Settings** screen appears.

Figure 44: Settings screen

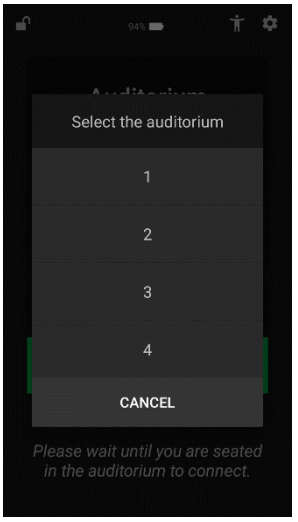


4. Scroll to the **Number of Auditoriums** field and enter the number of auditoriums to be displayed (from 1-32).
5. Tap the back button to save your settings and return to the home screen.

Results

When using the "**+**" and "**-**" buttons or using the scrolling list to select an auditorium, the Dolby Accessibility Solution Receiver home screen will now display only the number of auditoriums that was configured in the **Number of Auditoriums** field.

Figure 45: Auditorium selection list limited to 4 auditoriums



7.4 Updating the Auditorium name on the Dolby Accessibility Solution Receiver

You can update the Auditorium name on the Dolby Accessibility Solution Receiver.

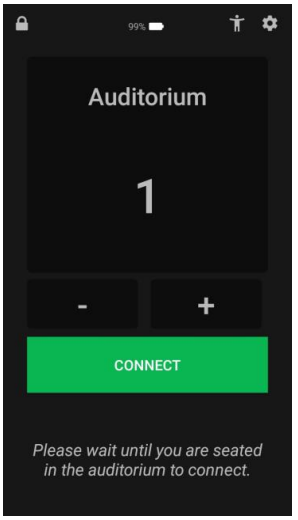
About this task

If you have configured custom auditorium names on the Dolby Accessibility Solution server, as described in Section 6.3, you can update all the custom names to be displayed on the Dolby Accessibility Solution receiver home screen. This needs to be done on each Dolby Accessibility Solution receiver.

Procedure

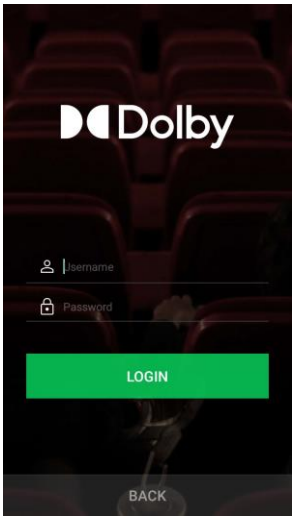
1. To power on the Dolby Accessibility Solution Receiver, press and hold the power button, if needed.
2. From the Dolby Accessibility Solution Receiver home screen, in the upper-right corner, tap the gears icon.

Figure 46: Tap home screen gears icon



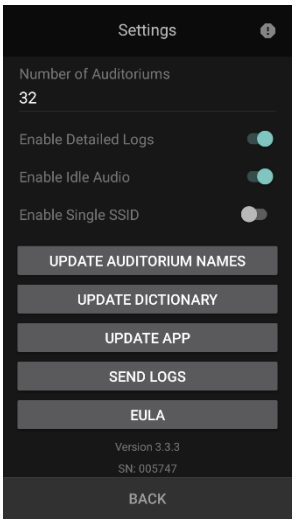
3. Enter the default username and password, and then tap **LOGIN**.
   The default username is **admin**, and the default password is **signs**.

Figure 47: Dolby Accessibility Solution Receiver login screen



The **Settings** screen appears.

Figure 48: Settings screen

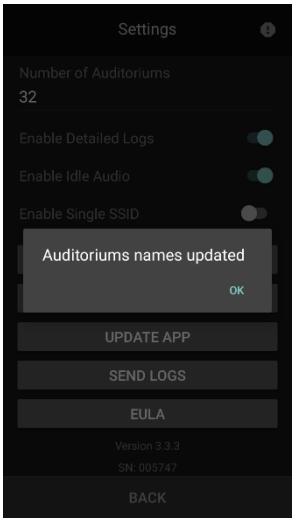


4. Scroll to the bottom of the **Settings** screen, and then select **Update Auditorium Name** to update the custom names for all the auditoriums in the theatre complex.

Results

Note: When updating the auditorium name, the Dolby Accessibility Solution receiver scans each Wi-Fi router defined in the complex, so it can connect to them and the corresponding Doby Accessibility Solution Servers. This process takes approximatively 15 minutes. It is recommended when using custom auditorium names that the installer or staff briefly connects each receiver in the complex to that auditorium to avoid guest confusion.

Figure 49: Settings screen: Auditorium name update complete



This completes the Dolby Accessibility Solution Receiver auditorium name update.

8

Configuring the Dolby Accessibility Solution for Single SSID operation

Dolby Accessibility Solution servers and receivers can be configured for use with an Enterprise Wi-Fi network.

This chapter covers the following information:

8.1 Single SSID Mode Overview

The default Wi-Fi architecture of the Dolby Accessibility Solution described in Section 5 is based on a closed Wi-Fi network for each Dolby Accessibility Solution server where each server (each auditorium) has its own Wi-Fi router. Each Wi-Fi router is configured with a unique SSID based on the Auditorium number. For example, in an 8-screen multiplex, there will be 8 different Wi-Fi routers and Wi-Fi SSIDs for each of the 8 auditoriums.

Single SSID mode allows system integrators to configure each Dolby Accessibility Solution server to be connected to a common Wi-Fi network, like a MESH Wi-Fi system, using a single common SSID for the entire multiplex. For example, in an 8-screen multiplex, there will be a single Wi-Fi MESH system with a single SSID used for all 8 auditoriums. Single SSID operation is intended for use with Enterprise-grade wireless networks and equipment.

Important Note: When a receiver is set in Single SSID mode, it does not handle the SSID Prefix field the same way it does in the default mode. In Single SSID, the SSID Prefix field represents the full SSID of the Wi-Fi network and there is no appended auditorium number.

Important Note: Dolby Accessibility Solution receivers that have a software version prior to version 3.3.6, that doesn't support Single SSID mode, should be updated to version 3.3.6 or later before enabling and configuring Singe SSID mode.

Important Note: The Wi-Fi infrastructure is the sole responsibility of the end user when operating in Single SSID mode. Dolby cannot guarantee performance such as the supported number of connected clients or the quality of service when operating in Single SSID mode.

8.2 Configuring Dolby Accessibility Solution Server for Single SSID mode

Prerequisites

Ensure the Dolby Accessibility Solution server software is updated per instructions in Section 11.

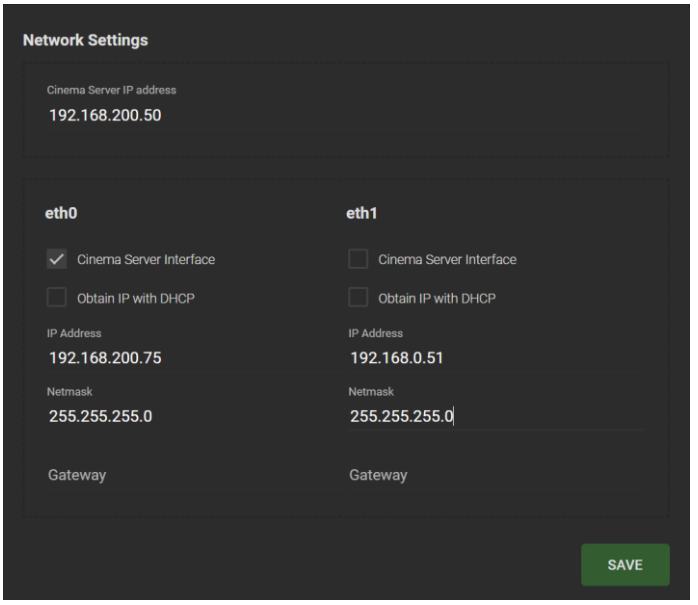
About this task

Unlike the default Wi-Fi architecture that uses closed Wi-Fi networks for each Dolby Accessibility Solution server (each auditorium), Single SSID mode requires each Dolby Accessibility Solution server to be connected to a common Wi-Fi network. A unique **eth1** Wi-Fi network address must be assigned for each Dolby Accessibility Solution server. The IP address for **eth1** for each Dolby Accessibility Server would be defined by the network administrator. Within the Dolby Accessibility Server, Single SSID must be enabled, and auditorium number must be assigned in General Settings.

Procedure

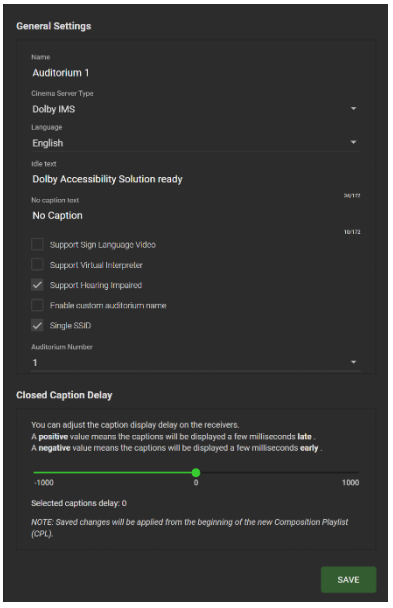
1. Log into the web UI and select **Settings** and then select **Network**.
2. Under **eth1**, enter a unique IP Address and Netmask to be used for the Wi-Fi network.

Figure 50: Network settings screen



3. Log into the web UI, select **Settings,** then select **General**.
4. Select the checkbox next to **Single SSID** to enable Single SSID mode.
5. When Single SSID mode is enabled, a dropdown menu called **Auditorium Number** is displayed. Set the **Auditorium Number** value to the auditorium number that corresponds to this Dolby Accessibility Solution server. Within a multiplex, no two separate Dolby Accessibility Solution servers should have the same Auditorium Number. Values between 1 and 32 are supported. For example, if **Auditorium Number** is set to "1", any Dolby Accessibility Solution receiver that connects to Auditorium 1 will receive accessibility resources from this Dolby Accessibility Solution server. Because of the distributed architecture, the resources coming from this Dolby Accessibility Solution server may be transmitted to the receiver from different Wi-Fi access points, based on signal strength.

Figure 51: General settings screen



6. Select **SAVE** after making the desired changes.

8.3 Configuring Dolby Accessibility Solution Receiver for Single SSID mode

Prerequisites

Ensure the Dolby Accessibility Solution receiver software is updated per instructions in Section 11.

About this task

The SSID name, password, and Single SSID mode are set in the settings menu of the Dolby Accessibility Solution receiver.

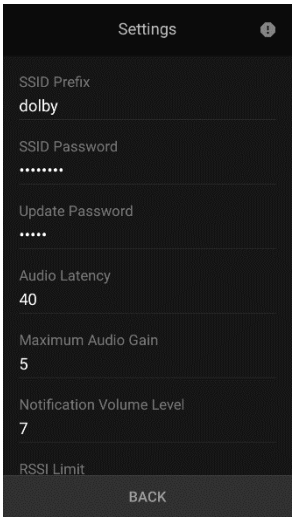
Procedure

1. Tap the **Gears** icon in the upper-right corner of the receiver home screen and log in with administrator credentials.
   a. The default username is **admin**, and the default password is **signs**.
2. In the **SSID Prefix** field, set the SSID name for the Wi-Fi network of the theater complex.

Important Note: When a receiver is set in Single SSID mode, it doesn't handle the SSID Prefix field the same way as in the default mode. In Single SSID, the SSID Prefix field represents the full SSID of the Wi-Fi network.

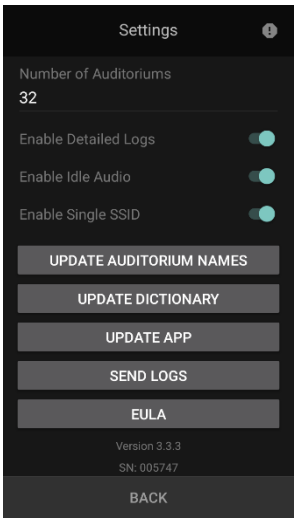
3. In the **SSID Password** field, set the SSID password for the Wi-Fi network of the theater complex.

Figure 52: SSSID Prefix and SSID Password



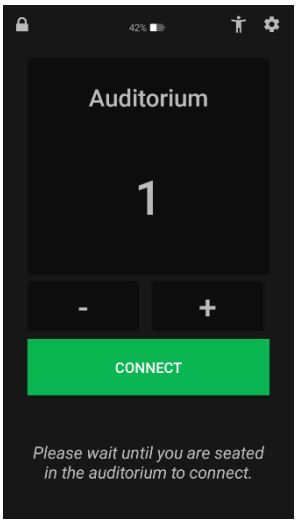
4. Scroll to the bottom of the Settings page and click the switch next to **Enable Single SSID**, to enable Single SSID mode on the receiver.

Figure 53: Enable Single SSID



5. Tap the back button to save your settings and return to the home screen.
6. Once both the Dolby Accessibility Solution server and receiver are configured for Single SSID mode, the Auditorium number selected on the receiver's home screen will allow the receiver to connect to the correct auditorium. If a Dolby Accessibility Solution server is configured with an **Auditorium Number** value of 1, receivers connecting to Auditorium 1 will connect to the Dolby Accessibility Solution server serving content to **Auditorium Number** 1.

Figure 54: Auditorium selection screen



9

Setting up a Dolby Accessibility Solution Receiver for a patron

Each Dolby Accessibility Solution Receiver must be configured before handing it to a patron.

This chapter covers the following information:

9.1 Enabling the talkback feature for visually impaired patrons

For visually impaired patrons, you can enable the talkback feature prior to selecting the auditorium. This feature allows the patron to hear audible prompts when interacting with the Dolby Accessibility Solution Receiver.

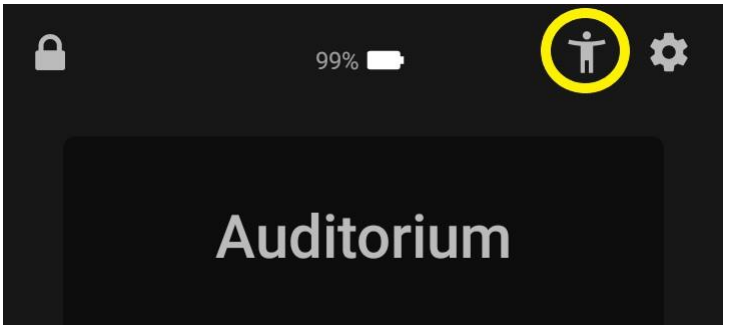
About this task

Note: The talkback feature is not available in Brazil when using the ASUS based receiver (part number: CINEASSISTA-REC).

Procedure

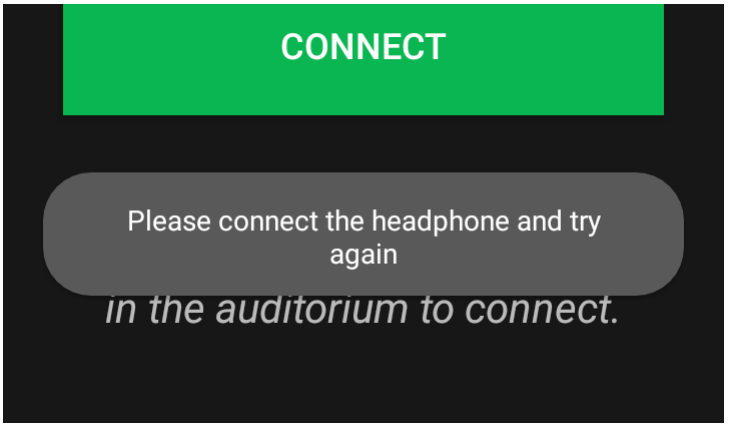
1. From the right side of the Dolby Accessibility Solution Receiver, press the power button to turn on the device.
2. From the Dolby Accessibility Solution Receiver home screen, tap the talkback icon at the upper right-hand corner, next to the settings (gear) icon.

Figure 55: Tap talkback icon



Note: Headphones must be connected. If there are no headphones connected, a prompt appears to connect them before proceeding. If headphones are connected, proceed to step 3.

Figure 56: Connect headphones message



3. After enabling the talkback feature, a prompt appears to select the auditorium number.

Figure 57: Select auditorium number

4. Tap **+** or **-** or tap the auditorium label to scroll to the desired auditorium, and then click **Connect**. When talkback is enabled, the **Audio Description** resource is automatically enabled.

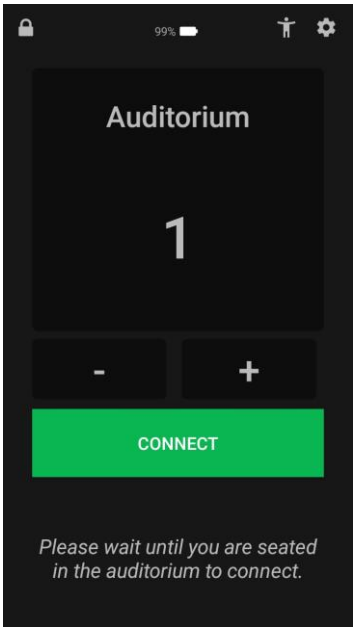
9.2 Connecting the Dolby Accessibility Solution Receiver to an auditorium

You must connect the Dolby Accessibility Solution Receiver to the Wi-Fi network of an auditorium to access the accessibility content.

Procedure

1. From the right side of the Dolby Accessibility Solution Receiver, press the power button to turn on the device.
2. From the Dolby Accessibility Solution Receiver home screen, tap **–** or **+** to select the auditorium. You can also tap the auditorium label and then scroll to the desired auditorium.

Figure 58: Select the auditorium number



3. Tap **CONNECT**.

Important: The connection is made only when the Dolby Accessibility Solution Receiver is within range of the Wi-Fi router. You may need to leave the unit at this screen and then ask the patron to tap **Connect** when they arrive in the auditorium. Depending on the auditorium region configuration, the available resources are displayed. For the Brazilian region, the patron is presented with **Sign Language**, **Audio Description**, and **Closed Caption** options. All other regions provide options for **Amplified Audio**, **Audio Description**, or **Closed Captions**.

9.3 Selecting available resources for Brazil

In Brazil, the resource options are different when compared to the rest of the world. Libras sign language is supported, and Hearing-Impaired service is not supported.

9.3.1 Selecting the sign language option

You or the patron can specify whether the receiver uses the human interpreter or virtual avatar to perform sign language. Note that for some content, the human interpreter track may not be available.

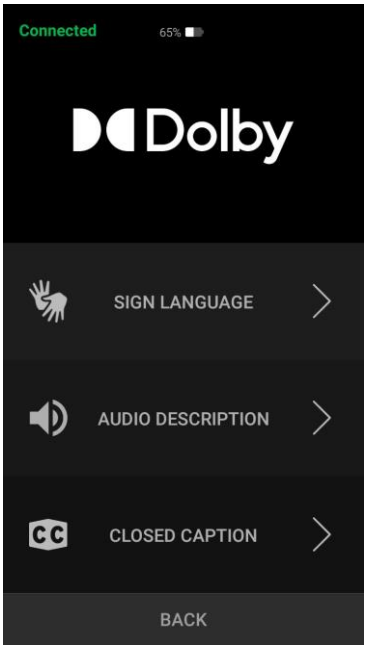
About this task

The Dolby Accessibility Solution system can display sign language in the form of a human interpreter or a virtual avatar.

Procedure

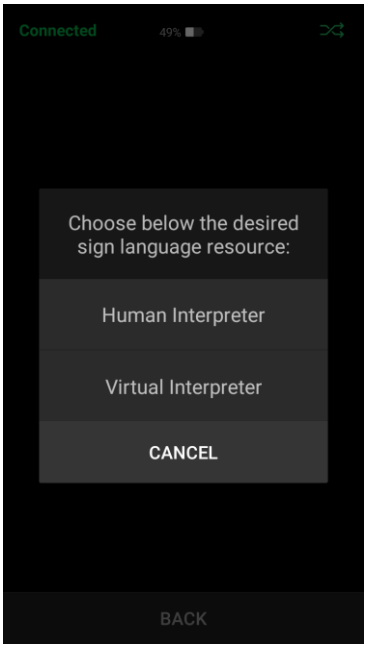
1. Visually verify that the word **Connected** appears in the upper-left corner of the Dolby Accessibility Solution Receiver **Options** screen.
2. Tap **SIGN LANGUAGE** in the **Options** screen.

Figure 59: Dolby Accessibility Solution Receiver options screen



If the SLV functionality is enabled, you will see the options for **Human Interpreter** and **Virtual Interpreter**.

Figure 60: Sign language options



If you select the **Human Interpreter** option, the human appears. If you select the **Virtual Interpreter** option, the virtual avatar appears.

Figure 61: Human Interpreter

Figure 62: Virtual avatar

3. To go back to the **Options** screen, tap **BACK** twice.

9.3.2 Selecting the audio description option

You can specify that the patron can listen to movie descriptions.

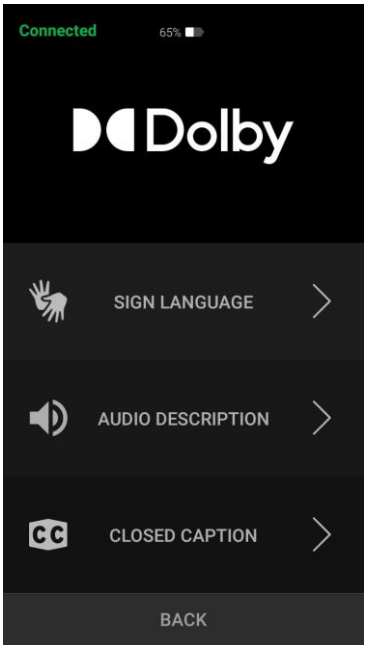
About this task

The **AUDIO DESCRIPTION** option allows the patron to hear movie descriptions in both earpieces of the stereo headphones.

Procedure

1. Visually verify that the word **Connected** appears in the upper-left corner of the Dolby Accessibility Solution Receiver **Options** screen.

Figure 63: Receiver options screen



2. From the Dolby Accessibility Solution Receiver **Options** screen, tap **AUDIO DESCRIPTION**.
3. To go back to the **Options** screen, tap **BACK** twice.
4. Give the patron the stereo headphones set.

9.3.3 Selecting the closed captioning option

You can specify that the patron can use the closed captioning option.

Procedure

1. Visually verify that the word **Connected** appears in the upper-left section of the Dolby Accessibility Receiver **Options** screen.
2. From the Receiver **Options** screen shown in Figure 60, tap **CLOSED CAPTION**.
3. To go back to the **Options** screen, tap **BACK** twice.

9.4 Selecting available resources for regions other than Brazil

You or the user can select from the available resources in your region.

9.4.1 Selecting the audio resource

About this task

The **AUDIO DESCRIPTION** option allows the patron to hear movie descriptions in both earpieces of the stereo headphones.

The **AMPLIFIED AUDIO** option allows the patron to hear amplified audio in both earpieces of the stereo headphones.

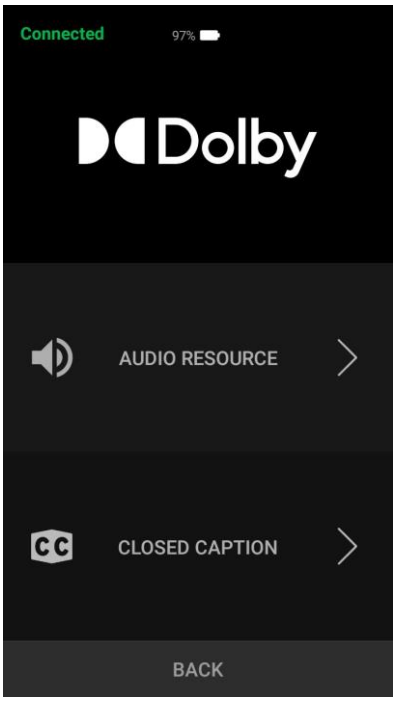
The **AMPLIFIED AUDIO AND AUDIO DESCRIPTION** option allows the patron to hear amplified audio in the left earpiece of the stereo headphones and movie descriptions in the right earpiece of the stereo headphones. (There is no option to change which resource is played from each earpiece.)

The **AMPLIFIED AUDIO AND CLOSED CAPTION** option allows the patron to listen to amplified audio on both earpieces of the stereo headphones while simultaneously viewing the closed caption text on the receiver display.

Procedure

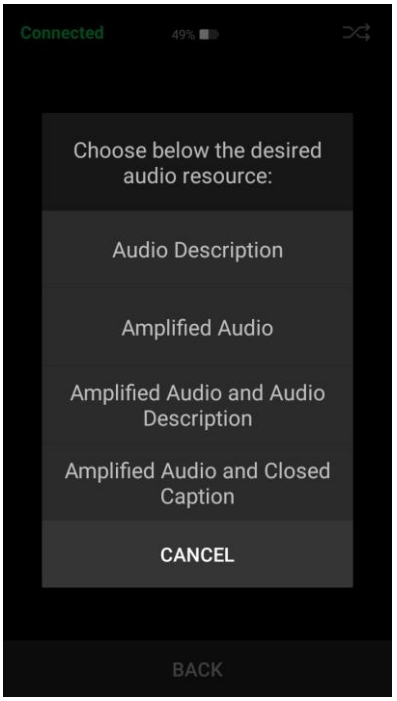
4. Visually verify that the word **Connected** appears in the upper-left corner of the Dolby Accessibility Solution Receiver **Options** screen.

   Figure 64: Dolby Accessibility Solution Receiver options screen



5. From the Dolby Accessibility Solution Receiver **Options** screen, tap **AUDIO RESOURCE**. The audio resource selection screen appears.

   Figure 65: Audio resource selection screen



6. Select **Audio Description**, **Amplified Audio**, **Amplified Audio and Audio Description**, or **Amplified Audio and Closed Caption**.
7. To go back to the **Options** screen, tap **BACK** twice.
8. Give the patron the stereo headphones set.

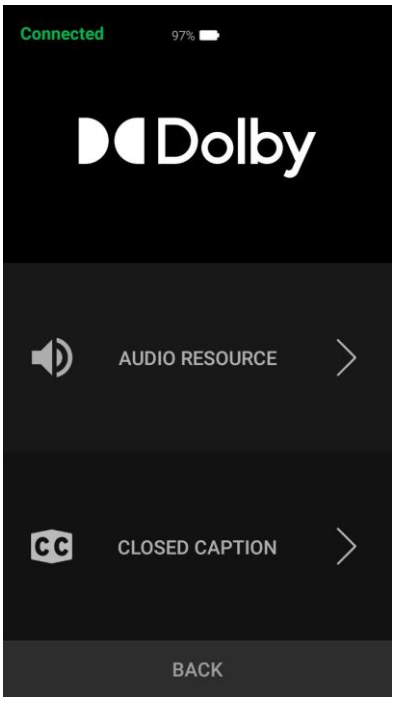
9.4.2 Selecting the Closed Caption option

You can specify that the patron uses closed captioning.

Procedure

1. Visually verify that the word **Connected** appears in the upper-left corner of the Dolby Accessibility Solution Receiver **Options** screen.

   Figure 66: Dolby Accessibility Solution Receiver options screen

2. Tap **CLOSED CAPTION**.
3. To go back to the **Options** screen, tap **BACK** twice.

9.5 Adjusting the Dolby Accessibility Solution Receiver adjustable arm

You can adjust the Dolby Accessibility Solution Receiver adjustable arm for your personal preferences.

Procedure

1. To adjust the size of the cup holder mount base:
   a. Rotate the knob located above the cup holder base.
      We recommend leaving the mount base adjusted close to the size of the armrest cup holder in the auditorium. This will reduce the amount of adjustment needed by the patron.

Figure 67: CINEASSISTA-REC (Brazil only) mount fully closed

Figure 68: CINEASSISTA-REC (Brazil only) mount fully expanded

Figure 69: DAS-200 mount fully closed

Figure 70: DAS-200 mount fully expanded

Figure 71: DAS-210 mount fully closed

Figure 72: DAS-210 mount fully expanded

2. To adjust the support arm:
   a. Using both hands, bend and position the display by using the foam grip near the top of the support arm, closest to the display.

Figure 73: Support arm adjustment

3. To adjust the receiver from portrait to landscape mode (or vice versa):
   a. Loosen the adjustment knob, rotate the touch screen display, and then retighten the adjustment knob.

Figure 74: CINEASSISTA-REC display adjustment

Figure 75: DAS-200 / DAS-210 display adjustment

10

Dolby Accessibility Solution default user accounts and passwords

The Dolby Accessibility Solution default user accounts and passwords allow you to log in to Dolby Accessibility Solution and perform setup and initial operations.

This chapter covers the following information:

10.1 Dolby Accessibility Solution web UI default user account

The Dolby Accessibility Solution web UI default user account is **Admin**, and the default user account login password is **admin**.

10.2 Dolby Accessibility Solution Server default user account

The Dolby Accessibility Solution Server default user account is **Assista**, and the default user account login password is **xAwsPR9-dL**.

10.3 Dolby Accessibility Solution Receiver default user account

The Dolby Accessibility Solution Receiver default user account is **admin**, and the default user account login password is **signs**.

10.4 TP-Link Archer C50 Wi-Fi router default user account

The Wi-Fi router default user account is **Admin**, and the default user account login password is **admin**.

11

Updating the Dolby Accessibility Solution system

You can update the Dolby Accessibility Solution system when new software is available. When you perform the update procedure, you must update both the Dolby Accessibility Solution Server and the Dolby Accessibility Solution Receiver.

This chapter covers the following information:

11.1 Updating the Dolby Accessibility Solution Server software using secure FTP

You can update the Dolby Accessibility Solution Server software using secure File Transfer Protocol (FTP). This is done by using an FTP browser like FileZilla to transfer the upgrade file to all of the servers on the network. The units can then be manually rebooted. The upgrade takes place upon reboot.

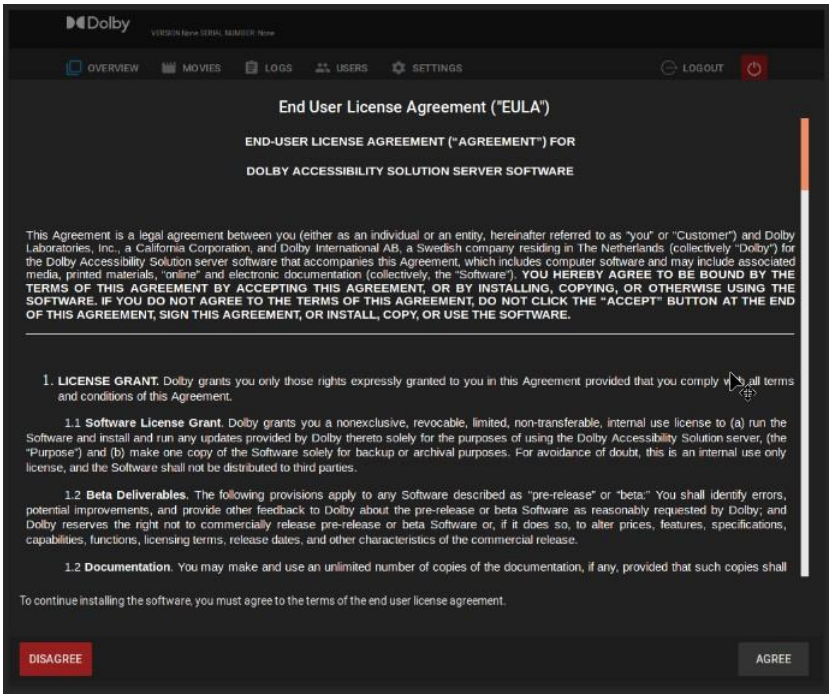
Prerequisites

You have received the Dolby Accessibility Solution Server software package from Dolby.

Procedure

1. Open a secure FTP browser, and log in to the Dolby Accessibility Solution Server:
   a. Enter the IP address of the Dolby Accessibility Solution Server.
   b. Enter **assista** as the username and **xAwsPR9-dL** as the password for the Dolby Accessibility Solution Server.
   c. In the **Port** field, enter **22**.
2. In the **Remote site** field, navigate to `/usr/share/cineassista/pkg`, and then place the Dolby Accessibility Solution Server software package in that folder.
3. Reboot the Dolby Accessibility Solution Server.
4. When the Dolby Accessibility Solution Server restarts, log in to the Dolby Accessibility Solution Server web UI, read the text in the End User License Agreement (EULA), and then click **AGREE**.

   Figure 76: End User License Agreement



5. To verify the Dolby Accessibility Solution Server version:
   a. Log in to the Dolby Accessibility Solution web UI and then verify that the updated software version appears in the upper-left corner of the screen.

11.2 Updating the Dolby Accessibility Solution Server software using USB

You can update the Dolby Accessibility Solution Server software using USB. This is done by placing the upgrade package on a USB storage device, plugging it into the Dolby Accessibility Solution Server, copying the file to a particular location on the Dolby Accessibility Solution Server, then rebooting. The upgrade takes place upon reboot.

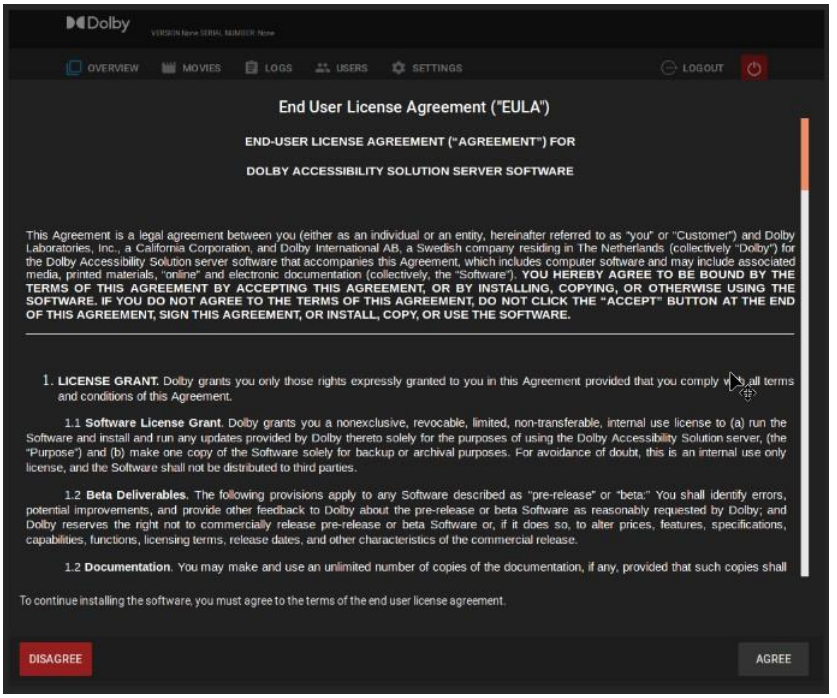
Prerequisites

You have received the Dolby Accessibility Solution Server software package from Dolby.

Procedure

1. Place the Dolby Accessibility Solution Server software package on a USB flash drive, and then insert the USB flash drive into a USB port on the Dolby Accessibility Solution Server.
2. On the Dolby Accessibility Solution Server desktop, open the file browser and navigate to Computer>usr>share>cineassista>pkg, and then place the Dolby Accessibility Solution Server software package in that folder.
3. Reboot the Dolby Accessibility Solution Server.
4. When the Dolby Accessibility Solution Server restarts, log in to the Dolby Accessibility Solution Server web UI, read the text in the End User License Agreement (EULA), and then click **AGREE**.

   Figure 77: End User License Agreement screen



5. To verify the Dolby Accessibility Solution Server version:
   a. Log in to the Dolby Accessibility Solution web UI and then verify that the updated software version appears at the upper-left corner of the screen.

11.3 Updating the Dolby Accessibility Solution Server software using the web UI

You can update the Dolby Accessibility Solution Server software using the web UI. This is done by uploading the upgrade package to the Dolby Accessibility Solution server using the web UI, then rebooting. The upgrade takes place upon reboot.

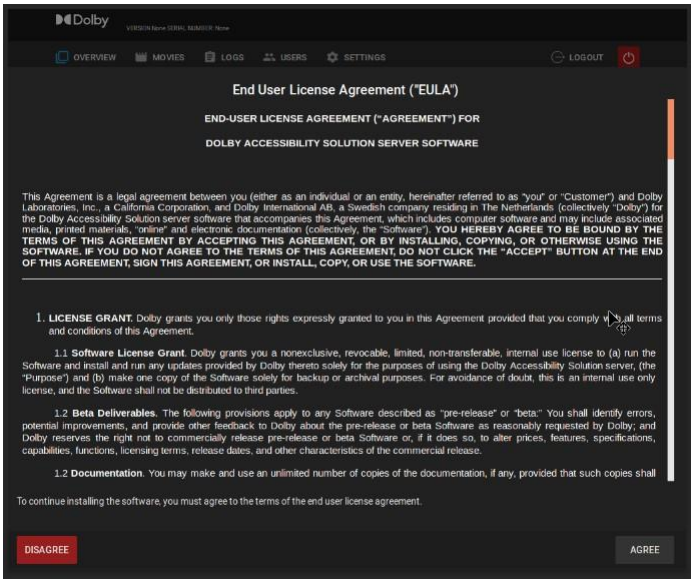
Prerequisites

You have received the software package from Dolby.

Procedure

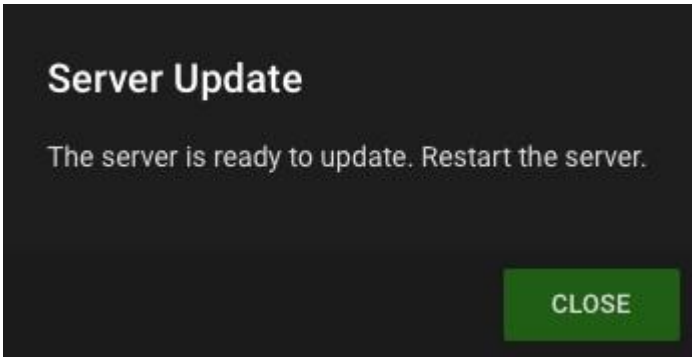
1. Log in to the Dolby Accessibility Solution Server web UI.
2. From the web UI, click **SETTINGS**, and then click **Update**.
3. Under **Server**, click **Select file**, and then find and select the software package.
4. The upgrade package can be uploaded from local storage (USB device) or a network location the Dolby Accessibility Solution server can access.
5. After you select the software package, click **Upload**.
6. When the End User License Agreement (EULA) appears, read the text, and then click **AGREE**.

Figure 78: End User License Agreement screen



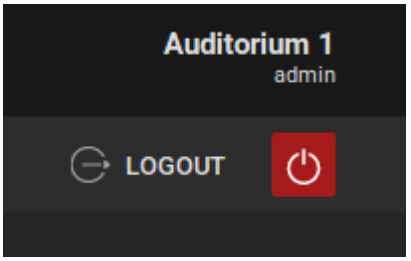
7. When the **Server Update** screen appears, click **CLOSE**.

Figure 79: Server Update screen



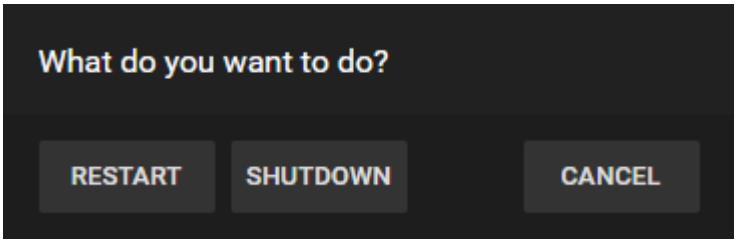
8. From the upper-right section of the web UI, click the red power symbol.

Figure 80: Red power symbol



9. Click **RESTART** to complete the software update process.

Figure 81: Power options pop-up screen



Results

After the Dolby Accessibility Solution Server reboots, the software update process is complete.

11.4 Updating the Dolby Accessibility Solution Receiver software

You can update the Dolby Accessibility Solution Receiver software using the Dolby Accessibility Solution Server web UI.

Prerequisites

You have received the Dolby Accessibility Solution Receiver software package from Dolby.

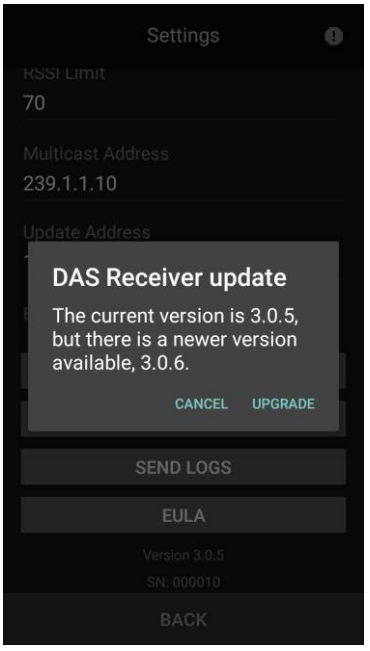
About this task

With this option, you can load the Dolby Accessibility Solution Receiver software package on a single Dolby Accessibility Solution Server, and then update all local Dolby Accessibility Solution Receivers.

Procedure

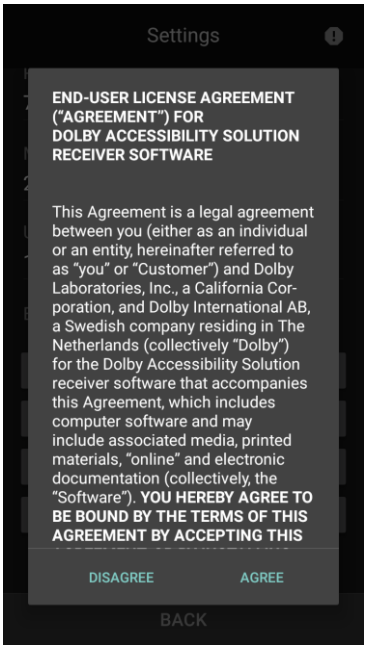
1. Download the receiver software update package. This can be done in two ways:
   a. Plug a USB flash drive with the receiver software update package into the Dolby Accessibility Solution Server USB port.
   b. If the Dolby Accessibility Solution Server has access to a network location where the receiver software update package is stored, you can download the package to this DAS Server.
2. Log in to the Dolby Accessibility Solution server web UI.
3. Click **SETTINGS**, click **Update**, and then under **Mobile Application**, click **Select file**.
4. Browse for the Dolby Accessibility Solution Receiver software package, and then click **Upload**.
5. On the Dolby Accessibility Solution Receiver, connect to the auditorium. Then tap the **BACK** button once, and in the upper-right corner, tap the gear icon.
6. Log in to the Dolby Accessibility Solution Receiver.
   The default username is **admin**, and the default password is **signs**.
7. Scroll down to the **Update Address** field and ensure the IP address matches the **eth1** IP address of the Dolby Accessibility Solution server that contains the update package.
8. Scroll down, tap **UPDATE APP**, and then tap **UPGRADE** when the software update screen appears.

Figure 82: Software update screen



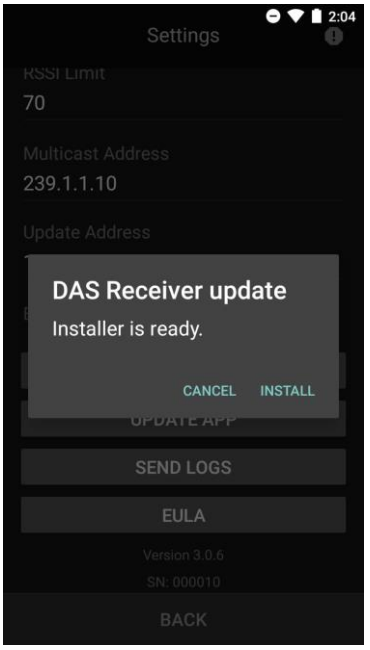
9. When the End User License Agreement (EULA) screen appears, read the text, and then tap **AGREE**.

Figure 83: Dolby Accessibility Solution Receiver End User License Agreement



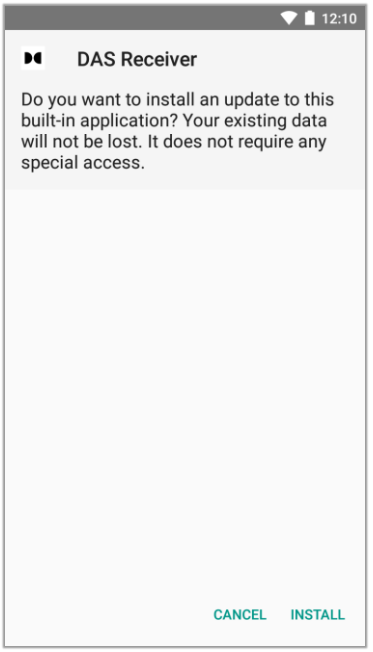
The installer ready screen appears.

Figure 84: Software installer ready



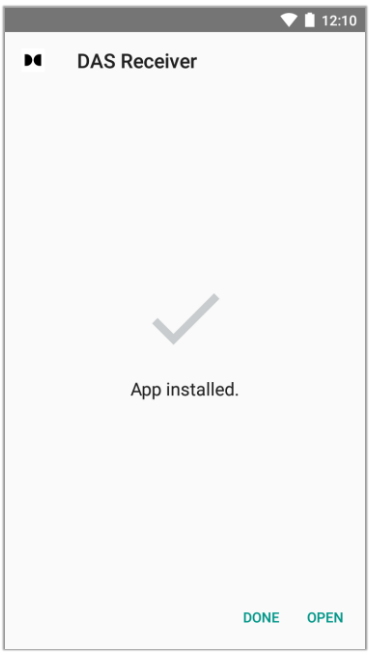
10. Tap **INSTALL**.
11. To complete the software update process:
    a. When the existing data warning screen appears, tap **INSTALL**.

Figure 85: Existing data warning screen



    b. When the update is complete, tap **OPEN** in the update confirmation screen.
    The Receiver reboots after the update.

Figure 86: Update confirmation



12. To verify the software version:
    a. Log in to the Dolby Accessibility Solution Receiver.
       The default username is **admin**, and the default password is **signs**.
    b. Scroll down and verify that the correct software version is displayed.
13. Perform the same upgrade to all other Receivers.

12

Dolby Accessibility Solution Server web UI

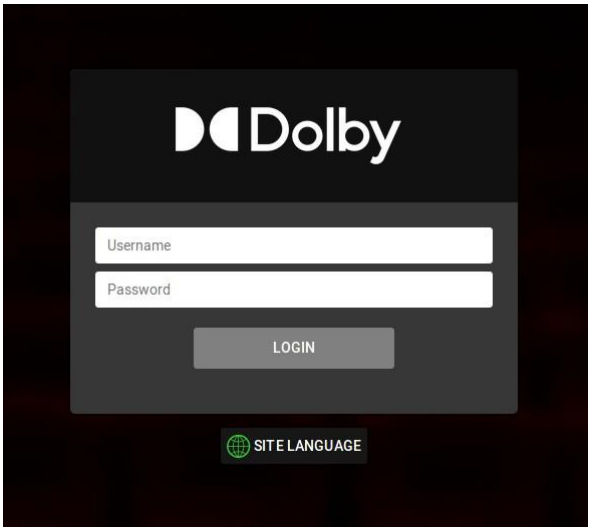
The Dolby Accessibility Solution Server provides a web UI to configure and control the Dolby Accessibility Solution system.

This chapter covers the following information:

12.1 Dolby Accessibility Solution Server web UI login screen

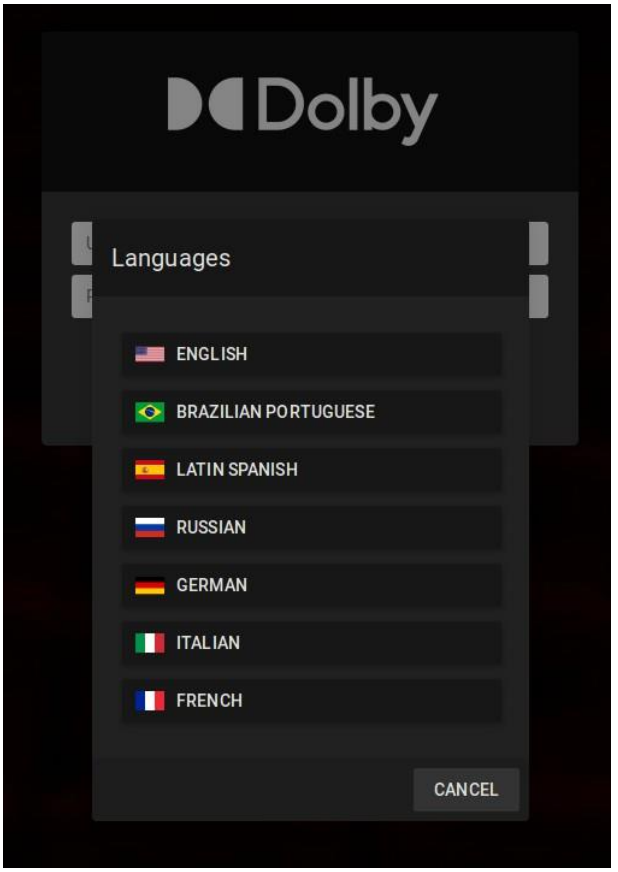
The Dolby Accessibility Solution Server web UI login screen is the mechanism used to configure any settings and update the Dolby Accessibility Solution system.

Figure 87: Dolby Accessibility Solution login screen



When you tap **SITE LANGUAGE** in the login screen, the **Languages** screen appears, which allows you to choose the desired language (English, Brazilian Portuguese, Latin Spanish, Russian, German, Italian, or French).

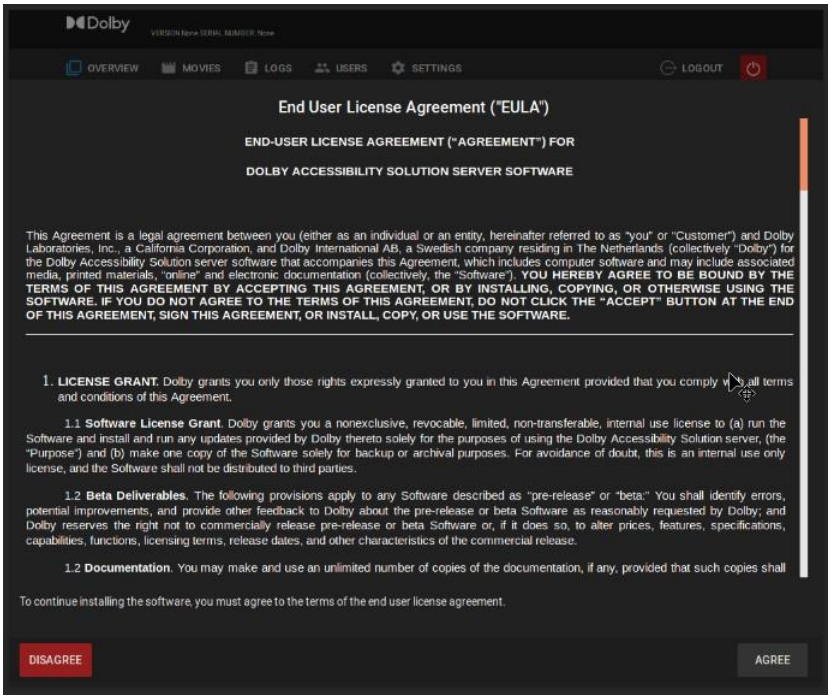
Figure 88: Select language screen



12.2 Dolby Accessibility Solution Server end-user license agreement

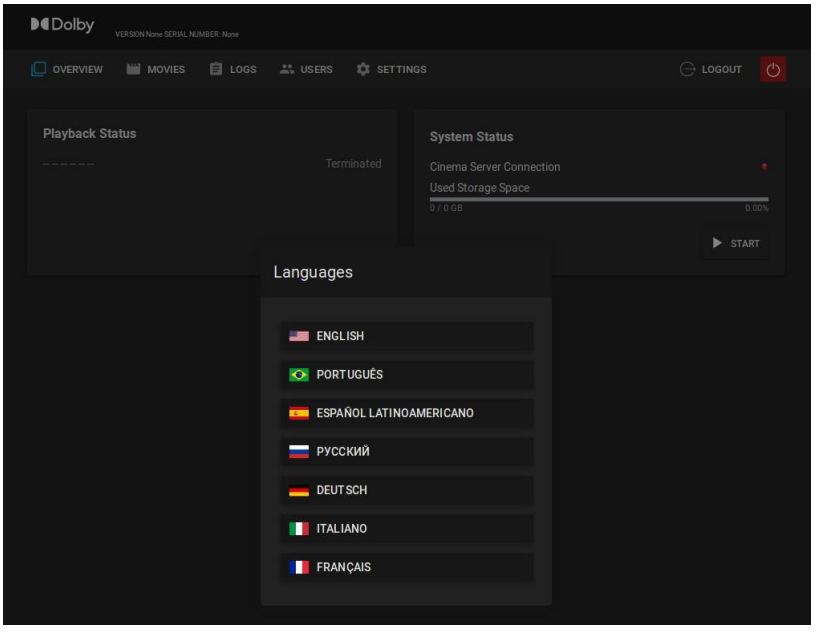
When logging in to the Web UI for the first time, the End User License Agreement (EULA) appears. The user must accept the EULA before the system is operational.

Figure 89: End User License Agreement



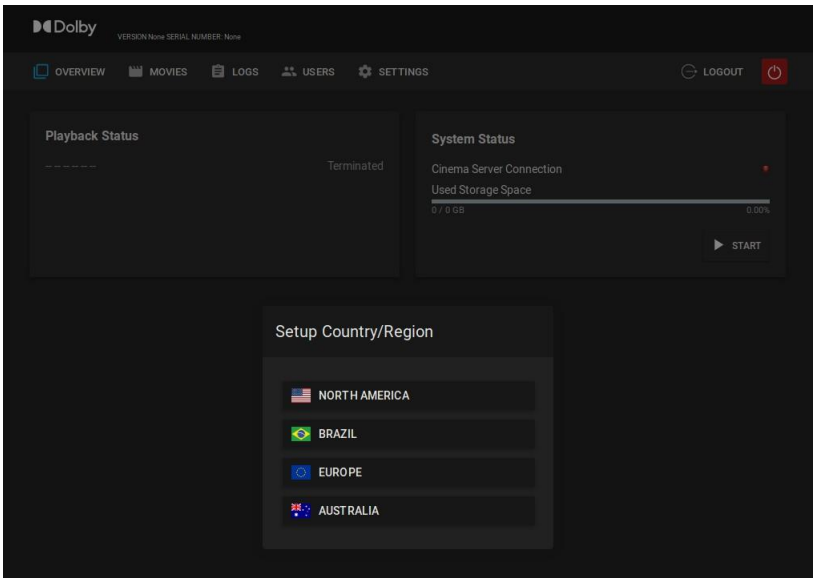
Once the EULA is accepted, the **Languages** screen appears. The language selected here is the default language that is used in the web UI and for the Receivers that connect to this auditorium.

Figure 90: Languages screen



After selecting the language, the **Setup Country/Region** screen appears. The Country/Region selection specifies the available accessibility resources.

Figure 91: Setup Country/Region screen



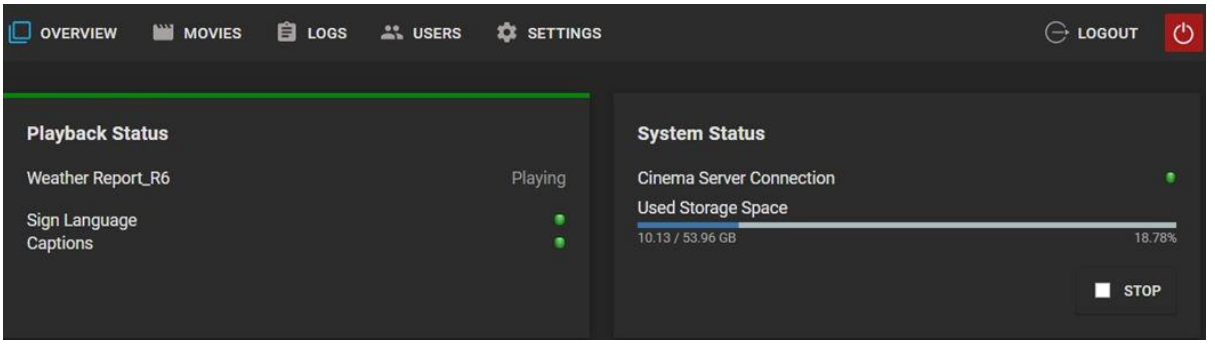
12.3 Overview screen

The **OVERVIEW** screen provides information for all current operations running on the Dolby Accessibility Solution Server.

On the **OVERVIEW** screen, you can view playback status and view the storage available on the Dolby Accessibility Solution Server. A green line demonstrates that playback is operational and successful. The **STOP** button allows you stop and restart the communication between the Dolby Accessibility Solution Server and the digital cinema server for troubleshooting. The **STOP** button does not stop playback on the digital cinema server.

You can also view the movie title and information regarding the sign language and closed captioning.

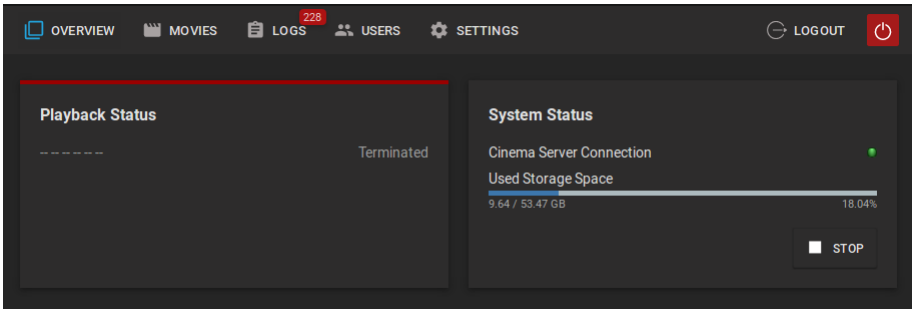
Figure 92: Overview screen operational



A red line indicates that playback is not operational and not successful. In such a case, no movie name is displayed, and no information is provided for the sign language and closed captioning.

If the **Playback Status** is red but the **Cinema Server Connection** is green, playback needs to be restarted on the cinema server. If both **Playback Status** and **Cinema Server Connection** are red, check that the cinema server is powered on and the network configuration is correct between both devices. In some cases, the server needs to have accessibility activated for the Dolby Accessibility Solution Server to work.

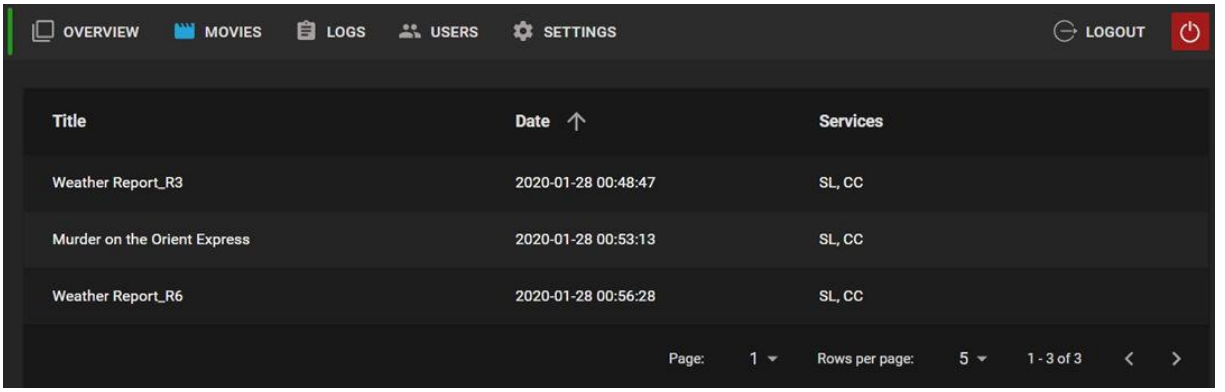
Figure 93: Overview screen nonoperational



12.4 Movies screen

The **MOVIES** screen displays a list of previously played content.

Figure 94: Movies screen



The **MOVIES** screen provides **Title**, **Date**, and **Services** columns to organize previously played content.

The **Title** heading provides the name of the content or movie.

The **Date** heading provides the date the content or movie was played.

The **Services** heading provides information regarding the type of service (sign language, closed captioning, or both) that is available for the content or movie. Note that outside Brazil, sign language will not be seen.

Note: For Hearing Impaired (HI) or Visually Impaired Narration (VI-N) the Dolby Accessibility Solution User interface is not able to show this information.

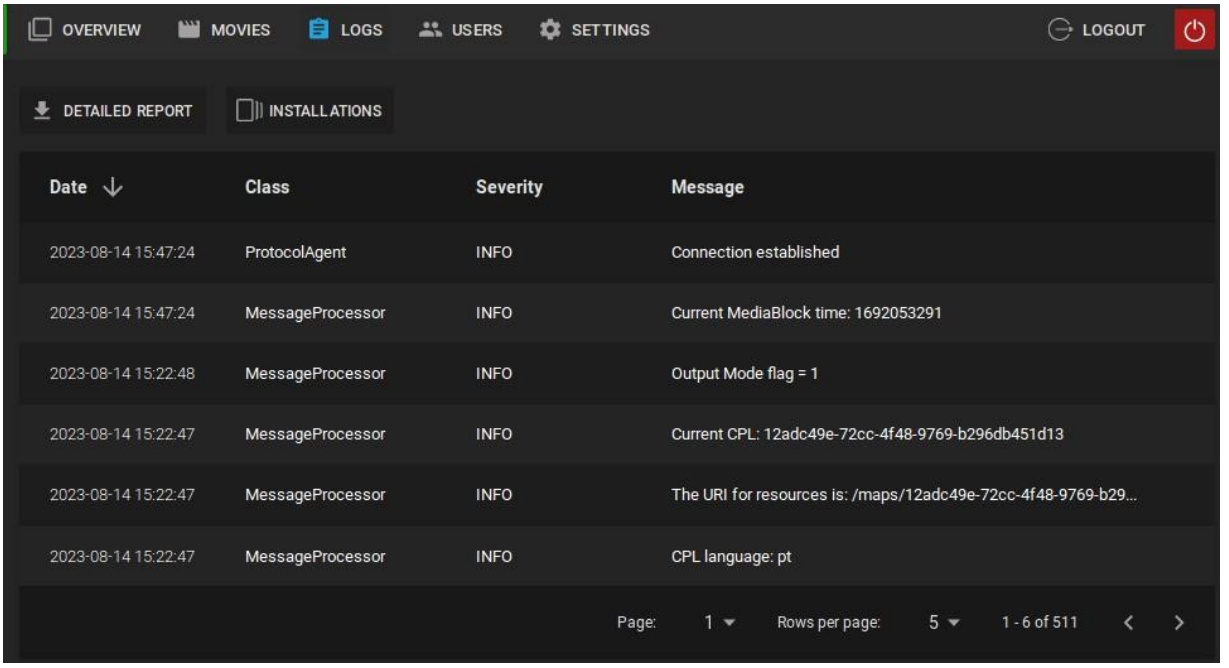
Each column heading includes an arrow that allows you to organize items. You can also go back and forth to different listings using the back and forward arrows.

12.5 Logs screen

The **LOGS** screen displays a log for each piece of previously played content.

The **LOGS** screen displays **Date**, **Class**, **Severity**, and **Message** columns to organize the content logs.

Figure 95: Logs screen



The **Date** column displays the date for the log. The **Class** column displays the log type. The **Severity** column displays the level of severity.

The **Message** column displays the information contained in the log.

The **DETAILED REPORT** button allows you to download a report containing all the logs.

The **INSTALLATIONS** button displays a history of the last installed update packages.

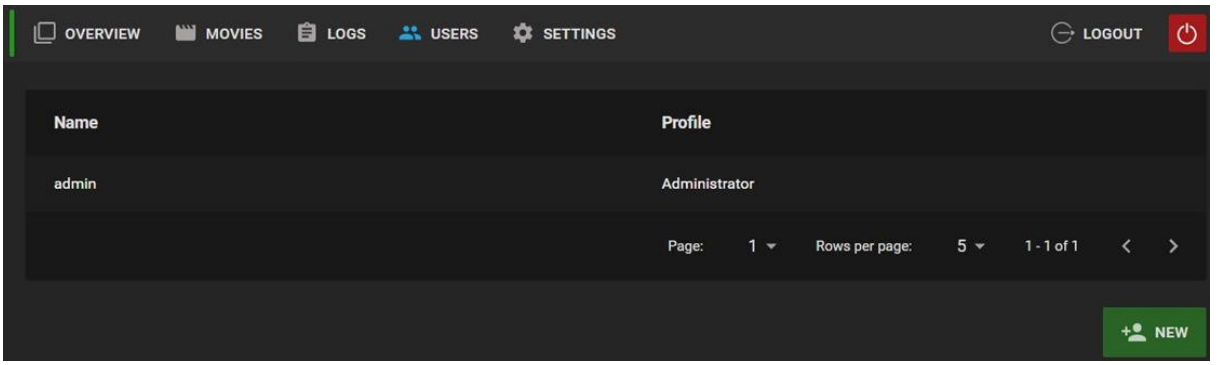
Each column heading includes an arrow that allows you to organize items. You can also go back and forth to different listings using the back and forward arrows.

If issues are discovered, the logs can be manually investigated, or the log package can be downloaded, then uploaded into Dolby's Log Analyzer which can provide insights into settings and potential issues. The Log Analyzer is found at: https://customer.dolby.com/cinema/

12.6 Users screen

The **USERS** screen displays information regarding all user accounts.

Figure 96: Users screen



The **USERS** screen displays **Name** and **Profile** columns. The **Name** heading displays the name of the user account. The **Profile** heading displays the profile for the user account. Only one user account is available on the Dolby Accessibility Solution system: **Administrator**. **Administrator** is the senior user account that allows all privileges.

You can add a new user account using the **NEW** button.

Each column heading includes an arrow that allows you to organize items. You can also go back and forth to different listings using the back and forward arrows.

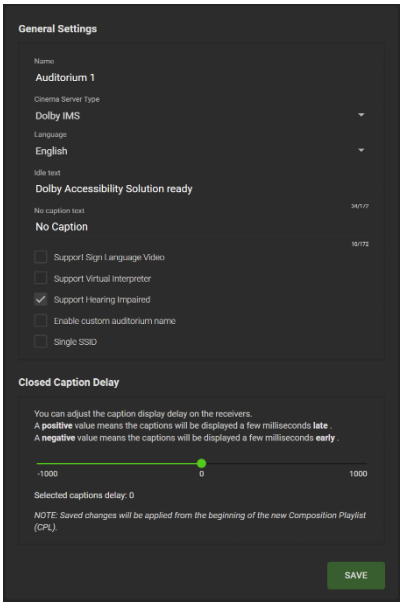
12.7 Settings tab

The **SETTINGS** tab provides tools to configure the general and network settings and to update the Dolby Accessibility Solution system software.

12.7.1 General Settings screen

The **General Settings** screen provides tools to configure the device name, cinema server type, language, idle text, and closed caption settings.

Figure 97: General Settings screen



Under the **Name** field, the theatre complex and auditorium name are displayed. The name entered here is used to identify the auditorium to which this Dolby Accessibility Solution Server is configured. The name is displayed in the Web UI and in the Detailed Report. This setting does not affect the SSID used to connect.

The **Cinema Server Type** list displays the type of cinema server that is used in the auditorium being configured.

The **Language** field allows you to change the language to be displayed on the receiver user interface.

The **Idle text** field is used to relay information when the Dolby Accessibility Solution Receiver is connected but no content is playing.

The **No caption text** field is used to relay information if no closed captioning is present during the movie.

Note: The **Idle text** and **No caption text** fields each have a character limit of 172 characters.

The **Enable custom auditorium name** checkbox allows you to create a custom auditorium name. The text entered in the **Enable custom auditorium name** field is displayed on the Dolby Accessibility Solution Receiver auditorium selection screen. This option is limited to eight alphanumeric characters. Receivers must connect to an auditorium once before they display the custom name set on the Server. You can do this by connecting to the auditorium through the **Auditorium Selection** screen or by updating the **Auditorium Name** in the Receiver **Settings** screen, as described in Section 7.4.

The **Single SSID** checkbox enables Single SSID mode as described in Section 8. When Single SSID mode is enabled, a dropdown menu called **Auditorium Number** is displayed. Set the **Auditorium Number** value to the auditorium number that corresponds to this Dolby Accessibility Solution server.

Closed Caption Delay allows you to adjust the delay time for when the closed captioning appears on the Dolby Accessibility Solution Receiver to ensure synchronization with the movie. A negative value provides for the closed captioning to appear earlier. The default value is 0 and can be adjusted from -1000 milliseconds to +1000 milliseconds.

The **Support Sign Language Video** check box, if selected, enables human interpreter functionality.

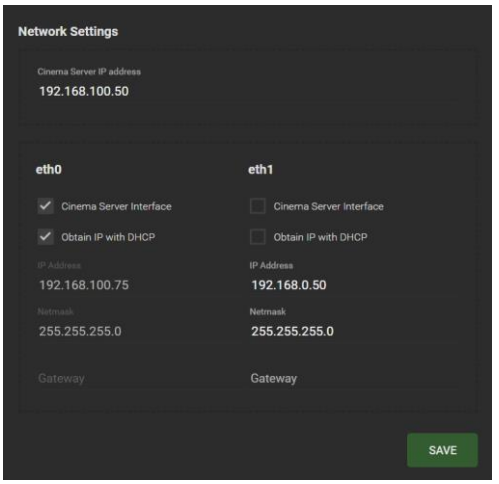
The **Support Virtual Interpreter** check box, if selected, enables the 3D avatar interpreter functionality.

Note: Support Sign Language Video and **Support Virtual Interpreter** can be enabled only for the Brazilian region. For all other regions, these options are unchecked and disabled.

12.7.2 Network Settings screen

The **Network Settings** screen provides tools to configure the Ethernet 0 and Ethernet 1 network settings.

Figure 98: Network Settings screen



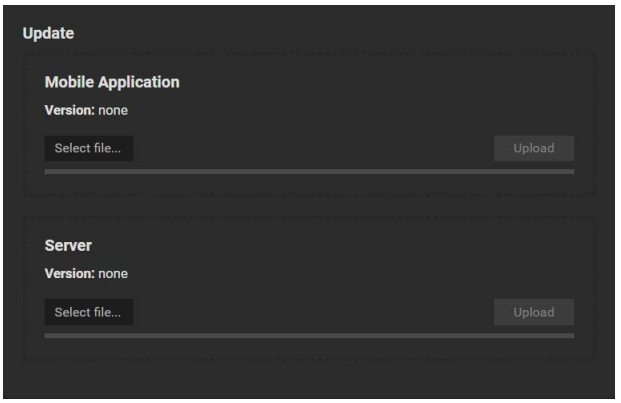
The **Network Settings** screen displays the cinema server IP address. Under the **eth0** and **eth1** fields, you can configure each of the respective network ports.

The **Gateway** field defines the network gateway address and is optional.

12.7.3 Update screen

The **Update** screen provides the mechanism to update the Dolby Accessibility Solution Receiver and Dolby Accessibility Solution Server remotely.

Figure 99: Update screen



Under **Mobile Application**, you can update one or more Dolby Accessibility Solution

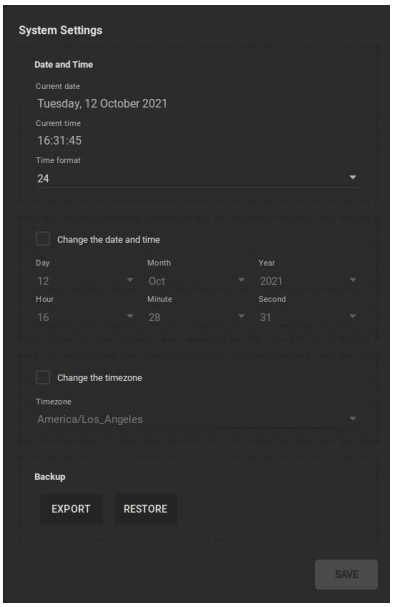
Receivers. Under **Server**, you can update the Dolby Accessibility Solution Server.

Use the **Select file** buttons to locate the software package. Use the **Upload** buttons to upload the software package to the respective device.

12.7.4 System Settings screen

The **System Settings** screen enables you to set or modify the Dolby Accessibility Solution Server time and date. The **System Settings** screen also includes a **Backup** option that allows the user to export and save the system configuration settings. You can restore the configuration settings on another Dolby Accessibility Solution Server.

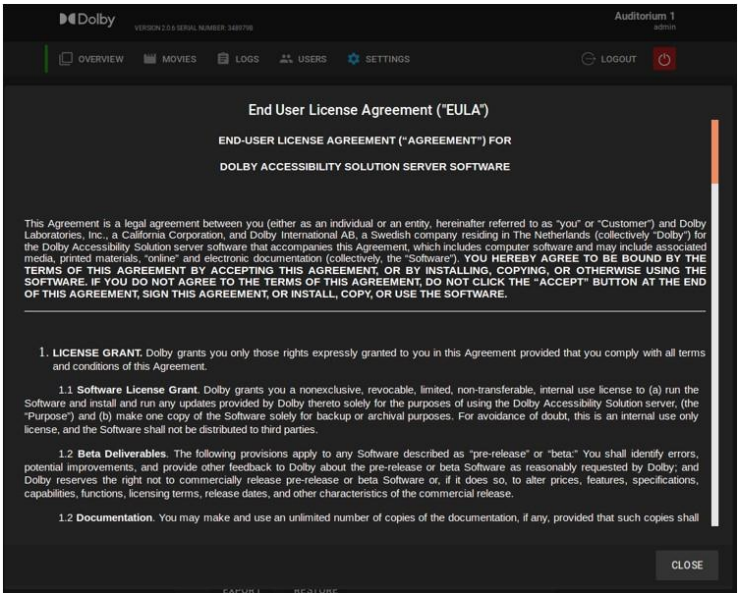
Figure 100: System Settings screen



12.7.5 Dolby Accessibility Solution Server End User License Agreement

The End User License Agreement (EULA) is provided after the user accepts the agreement during initial setup and configuration. You can access the EULA from the **SETTINGS** tab.

Figure 101: End User License Agreement



13

Dolby Accessibility Solution Operational and Technical Specifications

The Dolby Accessibility Solution operational and technical specifications provide useful information to help you verify setup options and avoid performance issues.

This chapter includes the following specifications:

13.1 Dolby Accessibility Solution Server technical specifications

The Dolby Accessibility Solution Server technical specifications provide useful information to help you verify setup options and avoid performance issues.

Processor

CINEASSISTA-SVR/DAS-100: Intel Pentium J4205 with 4-Core 10 W

DAS-110: Intel Pentium J5005 with 4-Core 10 W

Chipset

CINEASSISTA-SVR/DAS-100: Intel Apollo Lake system-on-chip (SoC)
DAS-110: Intel Gemini Lake Platform SoC

Graphics

CINEASSISTA-SVR/DAS-100: Intel high-definition 500 Series with HDMI, Digital Visual Interface (DVI), and VGA
DAS-110: Intel UHD 605 Graphics with DP and HDMI

Main memory

SO-DIMM DDR3-1600/1333 MHz with 4 GB of two-channel memory

Network

2 × 1 GB local area network (LAN) Realtek RTL8111GR

Storage

CINEASSISTA-SVR/DAS-100: 64 GB internal SATA SSD
DAS-110: 64 GB eMMC

Audio

CINEASSISTA-SVR/DAS-100: Eight-channel (7.1 multistream) Realtek ALC892 with Sony/Philips Digital Interconnect Format (S/PDIF) out port
Four-channel Dual Cmedia CM6631A, 2 x coaxial S/PDIF-input
DAS-110: Four-channel Dual Cmedia CM6631A, 2 x coaxial S/PDIF-input

Input/output

CINEASSISTA-SVR/DAS-100:

- Two USB 3.0 ports on rear panel
- Three USB 2.0 ports, with one on the front panel and two on the rear panel
- Two rear-panel RCA S/PDIF-AES audio inputs

CINEASSISTA-SVR/DAS-110:

- Two USB 3.0 ports on rear panel
- Three USB 2.0 ports, with one on the front panel and one on the rear panel
- Two rear-panel RCA S/PDIF-AES audio inputs

Operating system

Ubuntu v16.04

Chassis

- Dimensions: 2.1” (5.3 cm) x 8” (20.3 cm) x 8” (20.3 cm) (H x W x D)
- Net weight 2.2 lbs (1 kg); gross weight 3.8 lbs (1.7 kg)
- Adapter input voltage rating: 100-240 VAC
- Adapter input current rating: 1.6 A maximum
- Adapter input frequency range: 50-60 Hz
- Adapter output voltage rating: 12 VDC
- Adapter output current rating: 5 A

- Adapter output power rating: 60 W

Operating environment

- Operating temperature: 0° C to + 55° C
- Shock: 3,920 m/s^2 (400 G) 2 ms
- Vibration: 9.8 m/s^2 (1 G) 5 to 500 Hz
- Noise rating: 0-18 dB

13.2 Dolby Accessibility Solution Receiver operational specifications

The Dolby Accessibility Solution Receiver operational specifications provide useful information to help you verify setup options and avoid performance issues.

The Dolby Accessibility Solution Receiver corresponds to Asus phone model ASUS_X00ID (ZC554KL) for Brazil (CineAssista-REC).

The Dolby Accessibility Solution Receiver corresponds to Dolby tablet model VT-TAB55-RK68-DB8 for countries other than Brazil (DAS-200 and DAS-210).

The Dolby Accessibility Solution Receiver initial configuration requires that you read and understand important information about its operation.

Read the Dolby Accessibility Solution Receiver important information to prevent injury and for safety purposes:

- You must use only the provided charging cable to avoid damaging the Dolby Accessibility Solution Receiver and to prevent risk of injury.
- Never place heavy objects on top of the Dolby Accessibility Solution Receiver.
- The input voltage of the Dolby Accessibility Solution Receiver is +5VDC, 2A, 10W.
- Do not charge the Dolby Accessibility Solution Receiver in an environment with ambient temperature above 35°C (95°F).
- If you charge the Dolby Accessibility Solution Receiver through a computer, ensure that you plug the cable into the computer USB 2.0 or USB 3.0 port. This method may take longer for full charge.
- You can use the Dolby Accessibility Solution Receiver while it is charging, but it may take longer to charge.

Read the Dolby Accessibility Solution Receiver caution information to prevent injury and for safety purposes:

- The Dolby Accessibility Solution Receiver becomes warm when you charge it. This is expected, but if the Dolby Accessibility Solution Receiver becomes too hot, you must disconnect the cable from the Dolby Accessibility Solution Receiver and send then it and the cable to a Dolby qualified service professional.
- You must ensure that the charging cable and Dolby Accessibility Solution Receiver are properly connected before you charge the Dolby Accessibility Solution Receiver, to prevent any damage.

To repair a Dolby Accessibility Solution Receiver, send it only to a Dolby qualified service professional.

The Dolby Accessibility Solution Receiver screen is made of glass. If the glass is broken, stop using it and do not touch the broken glass parts. Immediately send the Dolby Accessibility Solution Receiver to a Dolby qualified service professional for repair.

Do not use damaged power cables, accessories, and other peripherals with the Dolby Accessibility Solution Receiver.

Disconnect the charging cable from the power source before you clean the Dolby Accessibility Solution Receiver. Only use a clean cellulose sponge or chamois cloth when cleaning the Dolby Accessibility Solution Receiver screen.

We strongly recommend that you use the Dolby Accessibility Solution Receiver only in a theatre complex.

You must keep the Dolby Accessibility Solution Receiver dry. Do not use or expose the Dolby Accessibility Solution Receiver near liquids, rain, or moisture.

You can put the Dolby Accessibility Solution Receiver through an X-ray machine, but do not expose the Dolby Accessibility Solution Receiver to magnetic detectors and wands.

Use only the cables approved by Dolby. You can refer to the rating label on the bottom of the Dolby Accessibility Solution Receiver.

Use the Dolby Accessibility Solution Receiver only in environments with ambient temperatures between 0°C (32°F) and 35°C (95°F). Do not charge the Dolby Accessibility Solution Receiver in environments with ambient temperatures above 35°C (95°F).

To prevent hearing damage, do not listen at high volume levels for long periods.

The Dolby Accessibility Solution Receiver uses a nondetachable lithium polymer battery. Do not disassemble the Dolby Accessibility Solution Receiver or its battery, as this will void the warranty and may cause serious harm.

Do not keep jewelry or metal objects near the Dolby Accessibility Solution Receiver.

Do not place a metallic sticker on the Dolby Accessibility Solution Receiver antenna. Do not place a metallic protective frame or case on the Dolby Accessibility Solution Receiver.

Never cover the Dolby Accessibility Solution Receiver antenna with your hands or any other objects while the device is in operation.

Do not touch any battery terminals. Do not disassemble or crush any battery. There is a risk of explosion if any battery is replaced improperly or by an incorrect type of battery.

You must peel off the protective film from the charging cable prior to using it with the Dolby Accessibility Solution Receiver.

You must ensure that the charging cable and Dolby Accessibility Solution Receiver are properly connected before any operation.

Do not disassemble any part of the Dolby Accessibility Solution Receiver or any accessories provided. If you need to service or repair the Dolby Accessibility Solution Receiver, contact Dolby.

Do not remove the privacy film from the Dolby Accessibility Solution Receiver screen. Do not use any screen protector other than the one provided with the Dolby Accessibility Solution Receiver.

14

Audio AES and adapter pinouts

The audio AES and adapter pinouts provide useful information to help you connect the Dolby Accessibility Solution system to external devices.

This chapter provides the following pinout information:

14.1 RJ-45 Ethernet cable color codes

The RJ-45 to DB25 pins are color coded to help you identify which DB25 pinhole to insert the pin into.

Table 1: RJ-45 Ethernet cable color codes channels 1-8

RJ-45 AES 1-8 connector	Pins AES 1-8 Side A	Color code
Channels 1 and 2 plus	1	Blue
Channels 1 and 2 minus	2	Orange
Channels 3 and 4 plus	3	Black
Channels 5 and 6 plus	4	Red
Channels 5 and 6 minus	5	Green
Channels 3 and 4 minus	6	Yellow
Channels 7 and 8 plus	7	Brown
Channels 7 and 8 minus	8	White

Table 2: RJ-45 Ethernet cable color codes channels 9-16

RJ-45 AES 9-16 connector	Pins AES 9-16 Side B	Color code
Channels 9 and 10 plus	1	Blue
Channels 9 and 10 minus	2	Orange
Channels 11 and 12 plus	3	Black
Channels 13 and 14 plus	4	Red
Channels 13 and 14 minus	5	Green
Channels 11 and 12 minus	6	Yellow
Channels 15 and 16 plus	7	Brown
Channels 15 and 16 minus	8	White

14.2 RJ-45 to 25-pin D-connector male adapter pinning

To pin the adapter, you need to insert the correct pin into the male adapter. Use the information provided to identify the 25-pin D-connector pinhole the cable is connected to.

The 25-pin D-connector end indicates the pin numbers in small print beside each pin.

Figure 102: 25-pin D-connector front

Figure 103: 25-pin D-connector front

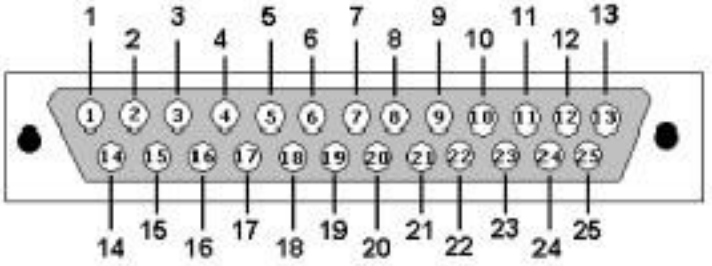
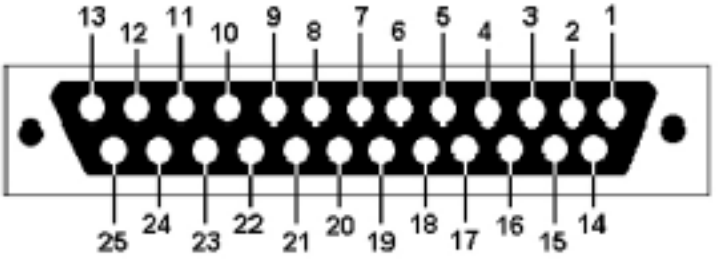


Figure 104: 25-pin D-connector back

Figure 105: 25-pin D-connector back



Tip:

Insert the cable into the pinhole until you feel the pin latch/click. To confirm that the pin is secure, pull the cable slightly to ensure that it does not come out of the connector.

14.3 Pinouts for AES3 channels 1-8 output

The AES3 channels 1-8 output pinouts and descriptions provide useful information to help you verify setup options and avoid performance issues.

Table 3: AES3 channels 1-8 output pinouts

Pin number	Description
1	Channels 1 and 2 plus
2	Channels 1 and 2 minus
3	Channels 3 and 4 plus
4	Channels 5 and 6 plus
5	Channels 5 and 6 minus
6	Channels 3 and 4 minus
7	Channels 7 and 8 plus
8	Channels 7 and 8 minus

14.4 Pinouts for AES3 channels 9-16 output

The AES3 channels 9-16 output pinouts and descriptions provide useful information to help you verify setup options and avoid performance issues.

Table 4: AES3 channels 9-16 output pinouts

Pin number	Description
1	Channels 9 and 10 plus
2	Channels 9 and 10 minus
3	Channels 11 and 12 plus
4	Channels 13 and 14 plus
5	Channels 13 and 14 minus
6	Channels 11 and 12 minus
7	Channels 15 and 16 plus
8	Channels 15 and 16 minus

14.5 Pinout wiring for AES3 audio for Dolby cinema audio processors

The AES3 audio wiring for Dolby cinema audio processors pinouts and descriptions provide useful information to help you verify setup options and avoid performance issues. We recommend that you consult the cinema audio processor documentation for more information.

Table 5: AES3 audio wiring for Dolby cinema audio processors pinouts

Signal	IMB/IMS AES out	Doremi AUD-D2A AES input	CP650 with Cat790 (5.1 config and 7.1 config)	CP750 (5.1 config and 7.1 config)	CP850/ CP950	DMA8/DMA8 plus
Channels 1 and 2 plus	1A	24	1	14	14	14
Channels 1 and 2 minus	2A	12		2	2	2
Channels 1 and 2 ground		25	7			1
Channels 3 and 4 plus	3A	10	2	3	3	3
Channels 3 and 4 minus	6A	23		16	16	16
Channels 3 and 4 ground		11	7			4
Channels 5 and 6 plus	4A	21	13	17	17	17
Channels 5 and 6 minus	5A	9		5	5	5
Channels 5 and 6 ground		22	7			18
Channels 7 and 8 plus	7A	7	21 for 5.1; none for 7.1	6 for 5.1; none for 7.1	6	6
Channels 7 and 8 minus	8A	20		19 for 5.1; none for 7.1	19	19
Channels 7 and 8 ground		8	7 for 5.1; none for 7.1			7
Channels 9 and 10 plus	1B				8	
Channels 9 and 10 minus	2B				21	
Channels 9 and 10 ground						
Channels 11 and 12 plus	3B		None for 5.1; 21 for 7.1	None for 5.1; 6 for 7.1	22	
Channels 11 and 12 minus	6B			None for 5.1; 19 for 7.1	10	
Channels 11 and 12 ground			None for 5.1; 7 for 7.1			
Channels 13 and 14 plus	4B				11	

Table 5: AES3 audio wiring for Dolby cinema audio processors pinouts (continued)

Signal	IMB/IMS AES out	Doremi AUD-D2A AES input	CP650 with Cat790 (5.1 config and 7.1 config)	CP750 (5.1 config and 7.1 config)	CP850/ CP950	DMA8/DMA8 plus
Channels 13 and 14 minus	5B				24	
Channels 13 and 14 ground						
Channels 15 and 16 plus	7B				25	
Channels 15 and 16 minus	8B				13	
Channels 15 and 16 ground						

14.6 Pinout wiring for AES3 audio for third-party cinema audio processors

The AES3 audio wiring for third-party cinema audio processors pinouts and descriptions provide useful information to help you verify setup options and avoid performance issues. We recommend that you consult the cinema audio processor documentation for more information.

Table 6: AES3 audio wiring for third-party cinema audio processors pinouts

Signal	DTS XD10P	Datasat AP20	USL JSD-60/USL JSD-80	Odyssey 650-OPTIO AES	QSC Basis 922dz	QSC DCP 100/DCP 200/DCP 300
Channels 1 and 2 plus	14	14	14	14	7	14
Channels 1 and 2 minus	2	2	2	2	15	2
Channels 1 and 2 ground	1		1	Shell		1
Channels 3 and 4 plus	3	3	3	3	24	3
Channels 3 and 4 minus	16	16	16	16	23	16
Channels 3 and 4 ground	4		15	Shell		15
Channels 5 and 6 plus	17	17	17	17	8	17
Channels 5 and 6 minus	5	5	5	5	16	5
Channels 5 and 6 ground	18		4	Shell		4
Channels 7 and 8 plus	6	6	6	6	22	6
Channels 7 and 8 minus	19	19	19	19	21	19
Channels 7 and 8 ground	7		18	Shell		18
Channels 9 and 10 plus						
Channels 9 and 10 minus						
Channels 9 and 10 ground						
Channels 11 and 12 plus						
Channels 11 and 12 minus						
Channels 11 and 12 ground						

Table 6: AES3 audio wiring for third-party cinema audio processors pinouts (continued)

Signal	DTS XD10P	Datasat AP20	USL JSD-60/USL JSD-80	Odyssey 650-OPTIO AES	QSC Basis 922dz	QSC DCP 100/DCP 200/DCP 300
Channels 13 and 14 plus						
Channels 13 and 14 minus						
Channels 13 and 14 ground						
Channels 15 and 16 plus						
Channels 15 and 16 minus						
Channels 15 and 16 ground						

14.7 Pinouts for the Dolby CP750 in 5.1 mode

Use this table to pin your RJ-45 to 25-pin D-connector male adapter when setting up a Dolby CP750 in 5.1 surround sound mode.

Table 7: Pinouts for connecting to a Dolby CP750 in 5.1 surround sound mode

RJ-45 Side A	DB25 Side	RJ-45 Side B
1-Blue	14	No connection
2-Orange	2	No connection
3-Black	3	No connection
4-Red	17	No connection
5-Green	5	No connection
6-Yellow	16	No connection
7-Brown	6	No connection
8-White	19	No connection

14.8 Pinouts for the Dolby CP750 in 7.1 mode

Use this table to pin your RJ-45 to 25-pin D-connector male adapter when setting up the Dolby CP750 in 7.1 surround sound mode.

Table 8: Pinouts for connecting to a CP750 in 7.1 surround sound mode

RJ-45 Side A	DB25 Side	RJ-45 Side B
1-Blue	14	No connection
2-Orange	2	No connection
3-Black	3	6
4-Red	17	No connection
5-Green	5	No connection
6-Yellow	16	19
7-Brown	No connection	No connection
8-White	No connection	No connection

14.9 Dolby CP850/Dolby CP950 pinouts

The Dolby CP850/Dolby CP950 pinouts and descriptions provide useful information to help you verify setup options and avoid performance issues.

Table 9: Dolby CP850/Dolby CP950 pinouts

DB25 Side	RJ-45 Side A	RJ-45 Side B	DB25 Side
14	1-Blue	1-Blue	8
2	2-Orange	2-Orange	21
3	3-Black	3-Black	22
17	4-Red	4-Red	11
5	5-Green	5-Green	24
16	6-Yellow	6-Yellow	10
6	7-Brown	7-Brown	25
19	8-White	8-White	13

14.10 25-pin D-connector to dual RJ-45 adapter pinout

The description of 25-pin D-connector to dual RJ-45 adapter pinouts provides useful information to help you verify setup options and avoid performance issues.

Table 10: 25-pin D-connector to dual RJ-45 adapter pinout

Dolby IMS3000 AES3 connector	25-pin D-connector	AES pair	AES channels
(1–8) Pin 1	Pin 14	1	Channels 1/2 plus
(1–8) Pin 2	Pin 2	1	Channels 1/2 minus
(1–8) Pin 3	Pin 3	2	Channels 3/4 plus
(1–8) Pin 6	Pin 16	2	Channels 3/4 minus
(1–8) Pin 4	Pin 17	3	Channels 5/6 plus
(1–8) Pin 5	Pin 5	3	Channels 5/6 minus
(1–8) Pin 7	Pin 6	4	Channels 7/8 plus
(1–8) Pin 8	Pin 19	4	Channels 7/8 minus
(9–16) Pin 1	Pin 8	5	Channels 9/10 plus
(9–16) Pin 2	Pin 21	5	Channels 9/10 minus
(9–16) Pin 3	Pin 22	6	Channels 11/12 plus
(9–16) Pin 6	Pin 10	6	Channels 11/12 minus
(9–16) Pin 4	Pin 11	7	Channels 13/14 plus
(9–16) Pin 5	Pin 24	7	Channels 13/14 minus
(9–16) Pin 7	Pin 25	8	Channels 15/16 plus
(9–16) Pin 8	Pin 13	8	Channels 15/16 minus

If you connect the output of the dual RJ-45 AES3 connectors to an external cinema audio processor, such as a Dolby CP750, you must use the 25-pin D-connector to dual RJ-45 adapter pinouts.

14.11 Pinouts for the Dolby IMS3000 AES3 auxiliary input or output port

Use this table to pin an external device for connection into the auxiliary input or output port on a Dolby IMS3000.

Table 11: Pinouts for connecting to IMS3000 auxiliary input or output port

Pin number	Description
1	AES3 input 1: channels 1/2+ and S/PDIF 1 +
2	AES3 input 1: channels 1/2- and S/PDIF 1 ground
3	AES3 input 2: channels 1/2+ and S/PDIF 2 +
4	AES3 output 1: channels 1 and 2+
5	AES3 output 1: channels 1 and 2-
6	AES3 input 2: channels 1/2- and S/PDIF 2 ground
7	AES3 output 2: channels 1/2+ (with Channel 1 normally used for HI)
8	AES3 output 2: channels 1/2- (with Channel 2 normally used for VI or SLV)

14.12 Dolby DCP-2000/Dolby DCP-2K4 AES pinouts

This table shows the Dolby DCP-2000/Dolby DCP-2K4 AES pinouts and descriptions:

Table 12: Dolby DCP-2000/Dolby DCP-2K4 AES pinouts

Pinout	Description
1	Advanced Encryption Standard (AES) channels 15/16 plus
2	AES channels 15/16 ground
3	AES channels 13/14 minus
4	AES channels 11/12 plus
5	AES channels 11/12 ground
6	AES channels 9/10 minus
7	AES channels 7/8 plus
8	AES channels 7/8 ground
9	AES channels 5/6 minus
10	AES channels 3/4 plus
11	AES channels 3/4 ground
12	AES channels 1/2 minus
13	No connection
14	AES channels 15/16 minus
15	AES channels 13/14 plus

Table 12: Dolby DCP-2000/Dolby DCP-2K4 AES pinouts (continued)

Pinout	Description
16	AES channels 13/14 ground
17	AES channels 11/12 minus
18	AES channels 9/10 plus
19	AES channels 9/10 ground
20	AES channels 7/8 minus
21	AES channels 5/6 plus
22	AES channels 5/6 ground
23	AES channels 3/4 minus
24	AES channels 1/2 plus
25	AES channels 1/2 ground

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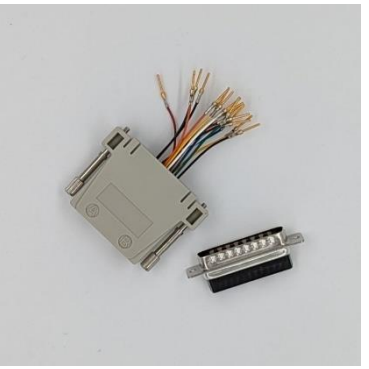
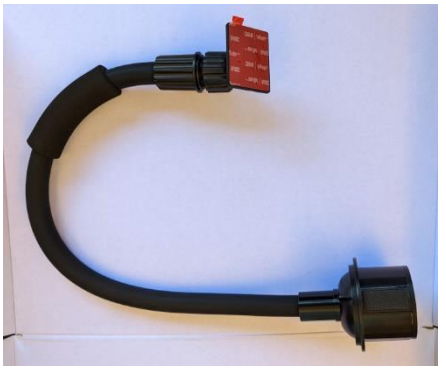
Dolby Accessibility Solution Parts and Accessories

The table below lists the spare and replacement parts available at the time of publication of this document. Part availability is subject to change at any time without notice.

Product Number	Description	Image
7501670	DB25-RJ45 Adapter	
8322916.01	Audio Y-Cable (CH 9-16, pink)	
8322917.01	Audio Y-Cable (CH 1-8, purple)	

4905430.01	Battery used in: DAS-200 receiver	
8322922.01	Support arm with cupholder base used with: DAS-200 receiver Includes extra 15mm ball mount adapter with 3M VHB adhesive	
8322969.01	Support arm with clamp mount base used with: DAS-200 receiver Includes extra 15mm ball mount adapter with 3M VHB adhesive	
6500020.01	Replacement hardware for the top of the support arm; holds the DAS-200 15mm ball mount. Used with 8322922.01 and 8322969.01 receiver support arms	
8707269.01	Privacy screen used with: DAS-200 receiver	

8707270.01	Headphones with 3.5mm stereo plug	
8707280.01	Headphone replacement earpads (qty. 4)	
4905450	Power supply - USB wall mount, 5V 2A for DAS-200 receiver. Includes international plug adapters.	
4905490	External power supply used with: CINEASSISTA-SVR, DAS-100, DAS-110. Includes international plug adapters.	

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Documentation revision history

The documentation revision history lists the date, issue number, and description of all previous publications of the *Dolby Accessibility Solution User's Manual* (previously called the *Dolby CineAssista User's Manual*).

Date	Issue	Description
26 April 2018	1	Limited Availability (LA) release for CineAssista Server v1.3.2 and CineAssista Receiver v2.16.2
20 May 2019	2	Updated documentation for the latest software release
25 February 2020	3	Updated documentation for the latest software release
14 June 2022	4	Global version (*Dolby Accessibility Solution User's Manual*)
10 October 2022	5	Global version (*Dolby Accessibility Solution User's Manual*)
1 November 2023	6	Global version (*Dolby Accessibility Solution User's Manual*)
	7	Global version (*Dolby Accessibility Solution User's Manual*)

Glossary

AC
: Alternating current.

AES
: Advanced Encryption Standard. A standard established by the National Institute of Standards and Technology (NIST) that specifies the AES algorithm (NIST FIPS 197).

AES
: Audio Engineering Society. An international organization that promotes advances in audio and disseminates new knowledge and research.

DCP
: Digital Cinema Package. A packing list (PKL) file and all of the files that it references.

DVI
: Digital Visual Interface. A video display interface used to connect a video source, such as a display controller, to a display device, such as a computer monitor.

FTP
: File Transfer Protocol. A network-based protocol designed for transferring data using a client-server architecture.

HD
: High definition.

HDD
: Hard disk drive.

HDMI
: High-Definition Multimedia Interface. A high-speed, high-capacity format for transferring digital information and the specific hardware interface for the format.

I/O
: Input/output. The communication between a system and an entity outside the system, such as another system or a human being.

IMB
: Integrated media block. A media block that is installed in a digital cinema projector.

IP address
: Internet Protocol address. A numerical identifier assigned to a device that is a member of a network that uses the IP for communication.

LAN
: Local area network.

MB
: Media block. A hardware device that converts packaged feature film content into streaming data and then delivers the data to the projector.

S/PDIF
: Sony/Philips Digital Interconnect Format. A digital interface protocol and specification for a physical connector for carrying digital audio signals, defined in IEC 60958.

SoC
: System-on-chip. An integrated circuit that integrates all components of an electronic system into a single chip.

SSID
: Service set identifier. A wireless local area network (WLAN) device name used for identifying and joining public and private wireless networks.

UI
: User interface.

USB
: Universal Serial Bus. A standard that defines the cables, connectors, and communications protocols used in connections between computers and electronic devices.

Video Graphics Array
: A type of video interface that can transmit uncompressed analog video.

Visually Impaired-Narration
: A dedicated audio channel that provides visual narration for the visually impaired.