



Dolby® DP600 Program Optimizer Manual

Issue 2
Models DP600 and 600B

Part Number 9111290

Dolby Laboratories, Inc.

Corporate Headquarters

Dolby Laboratories, Inc.
100 Potrero Avenue
San Francisco, CA 94103-4813 USA
Telephone 415-558-0200
Fax 415-863-1373
www.dolby.com

European Headquarters

Dolby Laboratories, Inc.
Wootton Bassett
Wiltshire SN4 8QJ England
Telephone 44-1793-842100
Fax 44-1793-842101

DISCLAIMER OF WARRANTIES:

EQUIPMENT MANUFACTURED BY DOLBY LABORATORIES IS WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE. THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES AND NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OF NONINFRINGEMENT OF THIRD-PARTY RIGHTS (INCLUDING, BUT NOT LIMITED TO, COPYRIGHT AND PATENT RIGHTS).

LIMITATION OF LIABILITY:

IT IS UNDERSTOOD AND AGREED THAT DOLBY LABORATORIES' LIABILITY, WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE, SHALL NOT EXCEED THE COST OF REPAIR OR REPLACEMENT OF THE DEFECTIVE COMPONENTS OR ACCUSED INFRINGING DEVICES, AND UNDER NO CIRCUMSTANCES SHALL DOLBY LABORATORIES BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, DAMAGE TO SOFTWARE OR RECORDED AUDIO OR VISUAL MATERIAL), COST OF DEFENSE, OR LOSS OF USE, REVENUE, OR PROFIT, EVEN IF DOLBY LABORATORIES OR ITS AGENTS HAVE BEEN ADVISED, ORALLY OR IN WRITING, OF THE POSSIBILITY OF SUCH DAMAGES.

Dolby, Pro Logic, and the double-D symbol are registered trademarks of Dolby Laboratories.

Dolby Digital Plus and Dialogue Intelligence are trademarks of Dolby Laboratories.

All other trademarks remain the property of their respective owners.

© 2013 Dolby Laboratories. All rights reserved.

Part Number 9111290

Issue 2

S13/25829/25859

Regulatory Notices

FCC

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This Class A digital apparatus complies with Canadian ICES-003.

EU/EMC

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Important Safety Instructions

1. CAUTION: 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.
2. 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.
3. This apparatus must be earthed (grounded) by connecting to a correctly wired and earthed power outlet.
4. Ensure that your mains supply is in the correct range for the input power requirement of the unit.
5. In order to reduce the risk of electrical shock, the power cord must be disconnected when the power supply assembly is removed.
6. This equipment is designed to mount in a suitably ventilated 19" rack; ensure that any ventilation slots in the unit are not blocked or covered.
7. CAUTION: This equipment contains a lithium battery. Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type. Do not disassemble, crush, puncture, short external contacts, or dispose of in fire or water. Dispose of the used battery in accordance with local law.
8. The mains power disconnect device for this unit is the plug-in mains cord rather than a power switch. The mains cord must remain readily accessible for disconnecting mains power.

9. To avoid exposure to dangerous voltages and to avoid damage to the unit, do not connect the rear panel Ethernet port to telephone circuits.
10. As the colours of the cores in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
 - The green and yellow core must be connected to the terminal in the plug identified by the letter E, or by the earth symbol $\underline{\text{l}}$, or coloured green, or green and yellow.
 - The blue core must be connected to the terminal marked with the letter N or coloured black.
 - The brown core must be connected to the terminal marked with the letter L or coloured red.
11. This apparatus must be earthed.

WEEE

PRODUCT END-OF-LIFE INFORMATION



This product was designed and built by Dolby Laboratories to provide many years of service, and is backed by our commitment to provide high-quality support. When it eventually reaches the end of its serviceable life, it should be disposed of in accordance with local or national legislation.

For current information, please visit our website at: www.dolby.com/environment.

IMPORTANT SAFETY NOTICE

This unit complies with safety standard EN60950-1 as appropriate. The unit shall not be exposed to dripping or splashing and no objects filled with liquids, such as coffee cups, shall be placed on the equipment. To ensure safe operation and to guard against potential shock hazard or risk of fire, the following **must** be observed:

- o Ensure that your mains supply is in the correct range for the input power requirement of the unit.
- o Ensure fuses fitted are the **correct rating and type** as marked on the unit.
- o The unit **must be earthed** by connecting to a correctly wired and **earthed** power outlet.
- o The **power cord** supplied with this unit must be wired as follows:

Live—Brown Neutral—Blue Earth—Green/Yellow

GB

IMPORTANT – NOTE DE SECURITE

Ce materiel est conforme à la norme EN60950-1. Ne pas exposer cet appareil aux éclaboussures ou aux gouttes de liquide. Ne pas poser d'objets remplis de liquide, tels que des tasses de café, sur l'appareil. Pour vous assurer d'un fonctionnement sans danger et de prévenir tout choc électrique ou tout risque d'incendie, veillez à observer les recommandations suivantes.

- o Le selecteur de tension doit être placé sur la valeur correspondante à votre alimentation réseau.
- o Les fusibles doivent correspondre à la valeur indiquée sur le matériel.
- o Le matériel doit être correctement relié à la terre.
- o Le cordon secteur livré avec le matériel doit être câblé de la manière suivante:

Phase—Brun Neutre—Bleu Terre—Vert/Jaune

F

WICHTIGER SICHERHEITSHINWEIS

Dieses Gerät entspricht der Sicherheitsnorm EN60950-1. Das Gerät darf nicht mit Flüssigkeiten (Spritzwasser usw.) in Berührung kommen; stellen Sie keine Gefäße, z.B. Kaffeetassen, auf das Gerät. Für das sichere Funktionieren des Gerätes und zur Unfallverhütung (elektrischer Schlag, Feuer) sind die folgenden Regeln unbedingt einzuhalten:

- o Der Spannungswähler muß auf Ihre Netzspannung eingestellt sein.
- o Die Sicherungen müssen in Typ und Stromwert mit den Angaben auf dem Gerät übereinstimmen.
- o Die Erdung des Gerätes muß über eine geerdete Steckdose gewährleistet sein.
- o Das mitgelieferte Netzkabel muß wie folgt verdrahtet werden:

Phase—braun Nulleiter—blau Erde—grün/gelb

D

NORME DI SICUREZZA – IMPORTANTE

Questa apparecchiatura è stata costruita in accordo alle norme di sicurezza EN60950-1. Il prodotto non deve essere sottoposto a schizzi, spruzzi e gocciolamenti, e nessun tipo di oggetto riempito con liquidi, come ad esempio tazze di caffè, deve essere appoggiato sul dispositivo. Per una perfetta sicurezza ed al fine di evitare eventuali rischi di scossa elettrica o d'incendio vanno osservate le seguenti misure di sicurezza:

- o Assicurarsi che il selettori di cambio tensione sia posizionato sul valore corretto.
- o Assicurarsi che la portata ed il tipo di fusibili siano quelli prescritti dalla casa costruttrice.
- o L'apparecchiatura deve avere un collegamento di messa a terra ben eseguito; anche la connessione rete deve avere un collegamento a terra.
- o Il cavo di alimentazione a corredo dell'apparecchiatura deve essere collegato come segue:

Filo tensione—Marrone Neutro—Blu Massa—Verde/Giallo

I

AVISO IMPORTANTE DE SEGURIDAD

Esta unidad cumple con la norma de seguridad EN60950-1. La unidad no debe ser expuesta a goteos o salpicaduras y no deben colocarse sobre el equipo recipientes con líquidos, como tazas de café. Para asegurarse un funcionamiento seguro y prevenir cualquier posible peligro de descarga o riesgo de incendio, se han de observar las siguientes precauciones:

- o Asegúrese que el selector de tensión esté ajustado a la tensión correcta para su alimentación.
- o Asegúrese que los fusibles colocados son del tipo y valor correctos, tal como se marca en la unidad.
- o La unidad debe ser puesta a tierra, conectándola a un conector de red correctamente cableado y puesto a tierra.
- o El cable de red suministrado con esta unidad, debe ser cableado como sigue:

Vivo—Marrón Neutro—Azul Tierra—Verde/Amarillo

E

VIKTIGA SÄKERHETSÅTGÄRDER!

Denna enhet uppfyller säkerhetsstandard EN60950-1. Enheten får ej utsättas för ytter åverkan samt föremål innehållande vätska, såsom kaffemuggar, får ej placeras på utrustningen. För att garantera säkerheten och gardera mot eventuell elchock eller brandrisk, måste följande observeras:

- o Kontrollera att spänningsväljaren är inställt på korrekt nätspänning.
- o Kontrollera att säkringarna är av rätt typ och för rätt strömtyrka så som anvisningarna på enheten föreskriver.
- o Enheten måste vara jordad genom anslutning till ett korrekt kopplat och jordat el-uttag.
- o El-sladden som medföljer denna enhet måste kopplas enligt följande:

Fas—Brun Neutral—Blå Jord—Grön/Gul

S

BELANGRIJK VEILIGHEIDS-VOORSCHRIFT:

Deze unit voldoet aan de EN60950-1 veiligheids-standaards. Dit apparaat mag niet worden blootgesteld aan vocht. Vanwege het risico dat er druppels in het apparaat vallen, dient u er geen vloeistoffen in bekers op te plaatsen. Voor een veilig gebruik en om het gevaar van elektrische schokken en het risico van brand te vermijden, dienen de volgende regels in acht te worden genomen:

- o Controleer of de spanningscarrousel op het juiste Voltage staat.
- o Gebruik alleen zekeringen van de aangegeven typen en waarden.
- o Aansluiting van de unit alleen aan een geaarde wandcontactdoos.
- o De netkabel die met de unit wordt geleverd, moet als volgt worden aangesloten:

Fase—Bruin Nul—Blauw Aarde—Groen/Geel

NL

Table of Contents

Chapter 1 Introduction

1.1	Workflow Integration	3
1.2	Workflow Flexibility and Ease of Use.....	3
1.3	Applications	4
1.4	Supported Media Formats and Audio Types	5
1.5	DP600 Front Panel	5
1.5.1	Touch-Screen User Interface	6
1.5.2	CD/DVD-ROM Drive	6
1.5.3	System Reset and Display Controls	6
1.5.4	Power Supply Indicators	7
1.5.5	Internal Drive Indicators	7
1.5.6	USB 2.0 Port	8
1.6	DP600 Rear Panel.....	8

Chapter 2 Using the DP600

2.1	Installing the DP600 Hardware	11
2.2	Starting the System for the First Time	12
2.2.1	DP600 Home Screen	27
2.2.2	Using the System Screen	28
2.3	Using the DP600 Remote Client Software.....	31
2.3.1	Understanding Work Orders	31
2.3.2	Running the DP600 Client	33
2.3.3	DP600 Client Home Screen	34
2.4	Creating a Work Order	35

Chapter 3 System Maintenance

3.1	Maintaining the DP600 Hard Drives	53
3.1.1	Replacing a Drive.....	54
3.2	Replacing a DP600 Power Supply	60
3.3	Upgrading or Installing the DP600 Software	63
3.4	Backing Up and Restoring Data	66
3.4.1	Backing Up Data and Settings	66
3.4.2	Restoring Data and Settings	68
3.5	Upgrading Licenses	71
3.6	Rebooting and Shutting Down	71

Appendix A Setting Up a Shared Folder and Entering a Path

A.1	Setting Up a Shared Folder	73
A.2	Entering a Path	74

A.3 Entering a Source Path	74
A.3.1 Entering a URL to Specify a Path	75
A.3.2 Browsing to a Location to Specify a Path	77
A.3.3 Selecting a Bookmark to Specify a Path.....	80
A.3.4 Entering a Path for Work Orders with Multiple Files	81
A.4 Entering a Destination Path.....	84
Appendix B DP600 Program Optimizer Detailed Profile Descriptions	
B.1 Understanding DP600 Profiles	85
Appendix C System Administrator Functions	
C.1 Access Levels.....	91
C.1.1 Administrator Level	91
C.1.2 User Level.....	91
C.1.3 Viewer Level	91
C.2 Setting Up an Administrator Level Password	92
C.3 Adding Users	95
C.4 Deleting IDs and Passwords	95
C.5 Changing the Default Access Level.....	95
C.6 Reconfiguring the System	96
Index.....	107

List of Figures

Figure 1-1	Coded Audio with Metadata Analysis and Correction	2
Figure 1-2	Audio Analysis and Correction for Audio Types Without Metadata	2
Figure 1-3	DP600 Front Panel	5
Figure 1-4	DP600 CD/DVD-ROM Drive (Behind Touch-Screen Door)	6
Figure 1-5	DP600-A Rear Panel	9
Figure 1-6	DP600-B Rear Panel	9
Figure 2-1	Connect DP600-A to Network	11
Figure 2-2	Connect DP600-B to Network	11
Figure 2-3	Connect DP600 Keyboard (Front-Panel Connection)	12
Figure 2-4	DP600 Welcome! Screen	13
Figure 2-5	Restore Screen	13
Figure 2-6	Network Information Dialog Box	14
Figure 2-7	Network Configuration Dialog Box	14
Figure 2-8	Hostname Keypad	15
Figure 2-9	Enter Gateway Address Number Pad Screen	15
Figure 2-10	Network Tools Dialog Box	16
Figure 2-11	Network Tools Ping	17
Figure 2-12	Network Tools Trace Route	17
Figure 2-13	Date and Time Information Screen	18
Figure 2-14	Time Configuration	18
Figure 2-15	NTP Settings Fields	19
Figure 2-16	Set Server Date/Time Screen	19
Figure 2-17	Select Region Screen	20
Figure 2-18	Select City or Zone Screen	20
Figure 2-19	System Properties Screen	21
Figure 2-20	Enter New Property Screen	22
Figure 2-21	Edit Property Screen	22
Figure 2-22	License Screen	23
Figure 2-23	Select Product Registration on Dolby Support Homepage	24
Figure 2-24	Product Registration Page	24
Figure 2-25	Registered Products Section of Product Registration Page	25
Figure 2-26	License Confirmation Prompt	26
Figure 2-27	Finished! Screen	26
Figure 2-28	DP600 Front-Panel Home Screen	27
Figure 2-29	System Screen	28
Figure 2-30	Info Screen	29
Figure 2-31	Status Screen	29
Figure 2-32	Volumes Screen	30
Figure 2-33	Disks Screen	30
Figure 2-34	DP600 Program Optimizer Splash Screen	33
Figure 2-35	DP600 Client Home Screen	34
Figure 2-36	Displaying the Work Orders Screen	35
Figure 2-37	Adding a Work Order	35
Figure 2-38	Log In Screen	36
Figure 2-39	Add Work Order Screen (All Work Orders Except Grass Valley Hot Folder)	36
Figure 2-40	Add Work Order Screen (Grass Valley Hot Folder)	37
Figure 2-41	Select a Work Order Type Screen	37
Figure 2-42	Selecting a Work Order Profile (Default Profiles Displayed)	38

Figure 2-43	Enter Path Screen	39
Figure 2-44	Additional Settings (Standard and Hot Folder Work Orders)	40
Figure 2-45	Additional Settings (Pinnacle, Omneon, Grass Valley, and Mono-Only Hot Folders, as well as Mono-Only Standard and Multifile Work Orders)	41
Figure 2-46	Entering the Work Order Start Time	41
Figure 2-47	Entering the Work Order End Time (For Work Orders with Multiple Files Only)	42
Figure 2-48	Work Order Running as Displayed in Home Screen	43
Figure 2-49	Work Orders Screen Displays Database	44
Figure 2-50	Work Order Filter Criteria Screen	44
Figure 2-51	Date Created Options	45
Figure 2-52	Set Priority Values	46
Figure 2-53	Work Orders Info Screen	46
Figure 2-54	Info Reports Screen	47
Figure 2-55	Detailed Report Displayed in Reports Info Screen	48
Figure 2-56	Export Report Confirmation	49
Figure 2-57	Edit Selected Work Order Screen	49
Figure 2-58	Click Reports in Home Screen	50
Figure 2-59	Click Info in Home Reports Screen	50
Figure 2-60	Display Report in Home Reports Info Screen	51
Figure 3-1	Red LED Indicates Failed Disk Drive	54
Figure 3-2	Swing Out Touch-Screen Panel	55
Figure 3-3	Locate Pry Areas Behind Drive Cover	55
Figure 3-4	Remove the DP600 Drive Cover	56
Figure 3-5	Remove the Drive Retaining Bracket	56
Figure 3-6	Physical Drive Numbers	57
Figure 3-7	Remove Failed Drive from DP600	57
Figure 3-8	Insert Replacement Drive in DP600	58
Figure 3-9	Reinstall Retaining Bracket	58
Figure 3-10	Reinstall Front-Panel Drive Cover	59
Figure 3-11	DP600 Front-Panel Power Supply Indicator	60
Figure 3-12	DP600 Failed Power Supply (Top Unit in Figure)	60
Figure 3-13	Loosen Thumbscrew on Failed Power Supply	61
Figure 3-14	Press on Tab and Pull Handle to Remove Failed Power Supply	61
Figure 3-15	Remove Failed Power Supply	62
Figure 3-16	Install New Power Supply	62
Figure 3-17	New Power Supply Installed and AC Cable Reconnected	63
Figure 3-18	Calibration Setup Screen	65
Figure 3-19	Setup Menu	66
Figure 3-20	Create System Backup: Initial Screen	67
Figure 3-21	Create System Backup: Scan Drives Screen	67
Figure 3-22	Create System Backup Screen	68
Figure 3-23	Backup Complete Screen	68
Figure 3-24	Restore Screen	69
Figure 3-25	Restore System Backup Screen	69
Figure 3-26	Restore Options Screen	70
Figure 3-27	Restore System Backup Screen	70
Figure 3-28	Restore Complete Screen	71
Figure A-1	Add Work Order Screen	74
Figure A-2	Enter Path Screen	75
Figure A-3	Type URL in Enter Path Screen	75
Figure A-4	URL Entered in Add Work Order Screen	76
Figure A-5	Click Browse in the Enter Path Screen	77
Figure A-6	Select Protocol Screen	77
Figure A-7	Enter User Credentials Screen	78
Figure A-8	Enter Server Details Screen	78
Figure A-9	Select File Screen	79

Figure A-10	Add Bookmark Screen.....	79
Figure A-11	Selecting a Bookmark.....	80
Figure A-12	Bookmark Entered in Source Field.....	80
Figure A-13	Enter Path Screen for Multifile Standard Work Order.....	81
Figure A-14	Enter Path Screen for Mono-Only Standard Work Order (5.1+2).....	82
Figure A-15	Enter Path Screen for Mono-Only Standard Work Order (7.1).....	82
Figure A-16	Enter Path Screen for Mono-Only Hot Folder Work Order	83
Figure A-17	Simple Configuration File Pattern Data-Entry Fields	83
Figure A-18	Simple Configuration File Pattern Example.....	84
Figure C-1	Press or Click the Lock Icon to Display the Log-in Screen.....	92
Figure C-2	Log In User Screen.....	93
Figure C-3	Press or Click Config in System Screen.....	93
Figure C-4	Press or Click Users in Config Screen	94
Figure C-5	Press or Click + in Add and Remove Users Screen.....	94
Figure C-6	Add Administrator Level User.....	95
Figure C-7	System Screen	96
Figure C-8	Config Screen.....	96
Figure C-9	Date and Time Reboot Screen	97
Figure C-10	Calibrate Button.....	98
Figure C-11	Calibration Setup Screen.....	98
Figure C-12	Upgrade Screen	99
Figure C-13	License Upgrade Screen	99
Figure C-14	Maintenance Screen.....	100
Figure C-15	Report Archive Criteria Screen.....	101
Figure C-16	Work Order Deletion Criteria Screen.....	101
Figure C-17	Automation Screen	102
Figure C-18	Enter New Automation Criteria Screen.....	103
Figure C-19	Automation Screen After Setting Up Criteria	103
Figure C-20	Logs Screen (Success)	104
Figure C-21	Logs Screen (Failure)	104
Figure C-22	Update Automation Criteria Screens	104
Figure C-23	Select System Log Output Directory Screen	105
Figure C-24	Loudness Log Export Screen	105
Figure C-25	Power Screen	106
Figure C-26	Reboot and Shutdown Confirmation Prompts	106

Introduction

Welcome to Dolby® file-based audio!

The Dolby DP600 Program Optimizer is a result of Dolby Laboratories' continued leadership in the development of innovative broadcast technologies.

The DP600 provides a file-based workflow solution for loudness correction, audio conversion, and upmixing. It is specifically designed for use in cable, satellite, IPTV, terrestrial TV, radio, and postproduction facilities. The DP600 includes the world's first intelligent audio analysis and automated loudness normalization engine, along with the ability to encode, decode, convert, or transcode between the following Dolby formats: Dolby Digital, Dolby Digital Plus™, and Dolby E bitstreams; as well as PCM and MPEG-1 LII. It also features a newly designed algorithm for upmixing legacy two-channel audio for 5.1-channel delivery. To ease the transition into a file-based workflow, the DP600 also supports many of the most common broadcast media file and audio formats in use today.

For compressed audio formats that include metadata (for example, Dolby E, Dolby Digital, and Dolby Digital Plus), the DP600 can automatically set or correct the `dialnorm` audio metadata parameter (see [Figure 1-1](#)).

For audio formats that do not include metadata, the DP600 can automatically set or correct the `dialnorm` parameter by referencing a user-defined target level (see [Figure 1-2](#)).

Content producers and broadcasters can reduce loudness complaints by using the DP600 to provide viewers with a consistent audio experience across programs, channels, and networks. Expanding upon the unique Dialogue Intelligence™ technology developed for the Dolby LM100 Broadcast Loudness Meter, the DP600 normalizes the loudness of audio programs while preserving their original dynamic range.¹ The DP600 analyzes the loudness of file-based audio bitstreams coded in Dolby Digital, Dolby Digital Plus, and Dolby E, and validates and corrects the `dialnorm` parameter without the need for decoding and reencoding the original audio bitstream. The DP600 also provides intelligent speech-based loudness normalization for both PCM audio and MPEG-1 LII audio.

The DP600-C provides faster-than-real-time file-based encoding, decoding, and conversion between all Dolby audio formats (Dolby Digital, Dolby Digital Plus, and Dolby E), PCM, and MPEG-1 LII, and preserves the audio metadata during the process. In addition, it offers a unique, high-quality, single-step Dolby Digital to Dolby Digital Plus converter that preserves the metadata and minimizes tandem coding losses. This allows the audio from existing media archives to be converted to next-generation broadcast formats. The DP600 also supports Dolby Pro Logic® II encoding for two-channel matrix-encoded content derived from multichannel source files.

¹ In very rare cases involving extreme loudness corrections that require gain, soft limiting will occur only during program peak levels that would exceed clipping after applying this type of loudness correction.

Customers interested in enhancing two-channel audio for use in 5.1-channel applications can purchase an optional DP600 software upgrade that adds an intelligent file-based upmixing capability. This unique process is based on a newly developed Dolby algorithm that creates a wider, natural-sounding sweet spot. It also ensures that subsequent downmixing is free from artifacts typically found with other solutions. The upmixing process can be adaptively integrated into the same DP600 workflow profiles utilized for file-based loudness correction, encoding, decoding, conversion, and transcoding.

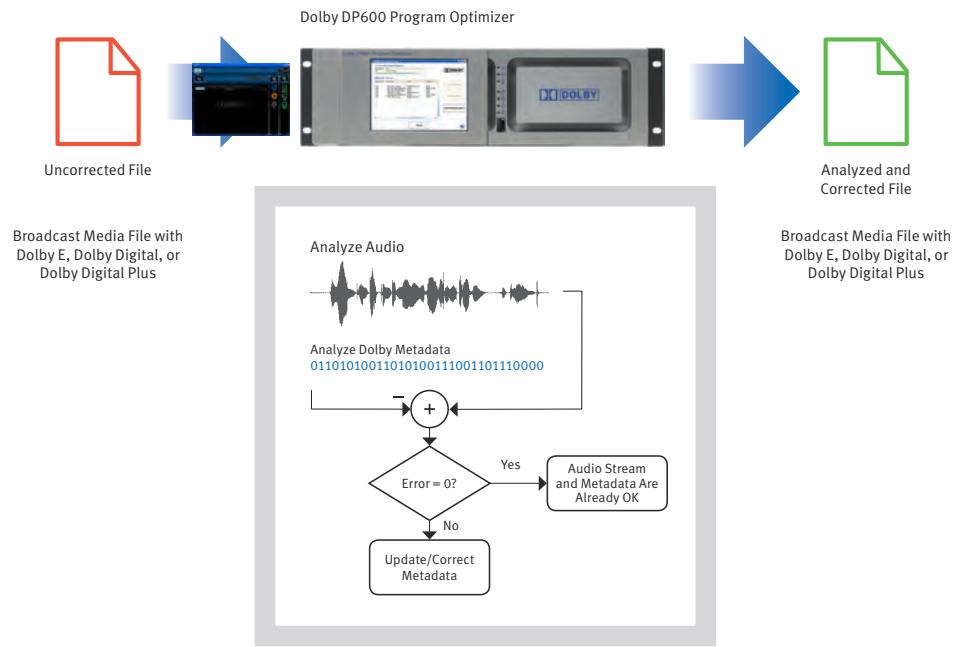


Figure 1-1 Coded Audio with Metadata Analysis and Correction

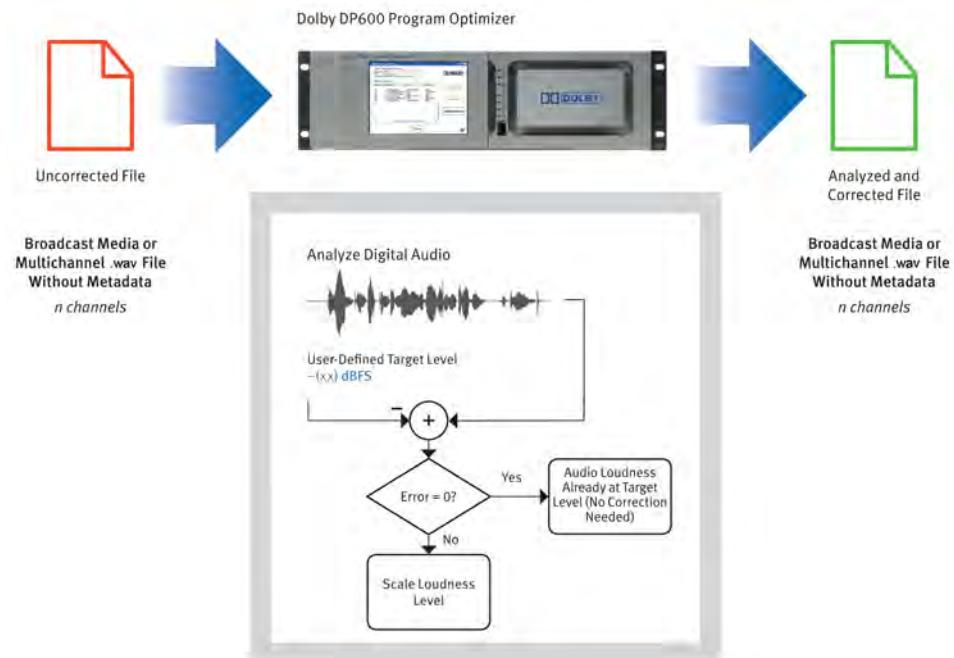


Figure 1-2 Audio Analysis and Correction for Audio Types Without Metadata

1.1 Workflow Integration

You can integrate the DP600 into an existing file-based network infrastructure as an intelligent processing node. In this environment, the DP600 adapts to your day-to-day operations and workflow, which includes:

- Program ingest, audio transcoding and conversion, and quality control (QC): Newly ingested content can be routed through the DP600 for loudness analysis and correction, encoding, decoding, and conversion processes before being moved to your media storage library or play-out server.
- Postproduction: File-based Dolby E, Dolby Digital, and Dolby Digital Plus bitstreams can be encoded and decoded to and from multichannel .wav or Broadcast .wav Format (BWF) files with metadata (included in the Dolby audio metadata chunk). File-based media and audio assets can be analyzed, logged, and (if necessary) corrected in faster than real time before delivery to clients.
- Ad insertion: Newly ingested ad content can be passed directly to the DP600 for loudness analysis and correction before it is placed in your storage archive or ad server.
- Video-on-demand (VOD): Customer-facing VOD servers, as installed at cable and IPTV headends, need to have their content normalized before it is made available to the public. This content can be supplied to the servers either directly, via an ingest department at the broadcaster or affiliate, or via satellite from one or more content aggregators. The DP600 can be installed at the content aggregator, normalizing content before it is sent ("pitched") over the satellite link. Alternatively, it can be installed at the headend, taking content that has either been ingested directly or caught from one or more pitchers and normalizing it before it is passed to the customer-facing server.

1.2 Workflow Flexibility and Ease of Use

The Dolby DP600 platform supports several types of applications, including archiving, automated QC, content conversion, and media asset management; it offers considerable potential for integration with third-party systems through an open application programming interface (API).

To meet specific user requirements, you can control the DP600 and its processing engines in the following ways:

- Manual control: Users can set up and initiate work orders on an individual or batch basis from a simple-to-use interface.
- Third-party control via web services: To enable system integration at any level, the DP600 processing engines are also available as a set of web services. This allows manufacturers to integrate these engines directly into their workflow to create a seamless user experience without impacting day-to-day operations.
- Automatic hot folder ingest process: Users can create hot folders and predefine a work order profile for each one. The profile governs the DP600 behavior with specific broadcast media types. All media files moved to a hot folder are automatically processed based on the folder profile and delivered to a user-defined folder upon completion. Hot folders are easy to set up and use and can greatly speed integration time within some facilities.

1.3 Applications

The DP600 is specifically designed for use in cable, satellite, IPTV, terrestrial TV, radio, and postproduction facilities.

Cable Applications

- Automated VOD file analysis and loudness correction
- Automated VOD file transcoding and conversion
- Automated digital program insertion (DPI) file analysis and loudness correction
- Automated broadcast media file audio transcoding and conversion
- Automated broadcast media file QC and loudness correction

Satellite Applications

- Pay-per-view (PPV) file analysis and loudness correction
- PPV file audio transcoding and conversion
- Automated broadcast media file audio transcoding and conversion
- Automated broadcast media file QC and loudness correction

IPTV Applications

- Automated VOD file analysis and loudness correction
- Automated VOD file transcoding and conversion
- Automated broadcast media file audio transcoding and conversion
- Automated broadcast media file QC and loudness correction

Terrestrial Applications (Networks/Affiliates/Independent Stations)

- Broadcast media file QC and loudness correction
- Broadcast media file (GXF, MXF, others) audio transcoding and conversion

Postproduction Applications

- Automated loudness analysis, setting and correction of `dialnorm` metadata for programming destined for broadcast
- Automated normalization of content without metadata (to meet your customer's delivery specifications)
- Faster-than-real-time automated transcoding and conversion of broadcast media files

1.4 Supported Media Formats and Audio Types

The DP600 supports many media formats and audio types, including media file formats and linear and coded audio types.

Media File Formats

GXF (SMPTE 360M); MXF operational patterns per SMPTE 390M (OP-Atom); SMPTE 378M (OP1a); SMPTE 391M (OP1b with internal essence file formats only); MXF container (essence) support per SMPTE 379M (GC); SMPTE 381M (GC-MPEG); SMPTE 383M (GC-DV minus support for audio essence interleaved in DV); SMPTE 382M (GSC-AESBWF); SMPTE 386M (IMX with D10 audio); MPEG-2 program stream; MPEG-2 single program transport stream; MP4

Linear Audio Types

- .wav, .bwf, and multichannel .wav files with or without a Dolby audio metadata .wav chunk
- .aiff, including multichannel
- 16-, 20-, and 24-bit PCM (within any of the aforementioned media file formats)

Coded Audio Types

Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3), Dolby E, MPEG-1 LII

1.5 DP600 Front Panel

The DP600 front panel includes the following components:

- Touch-screen user interface
- CD/DVD-ROM drive and system reset/display controls (behind touch-screen door)
- Power supply indicators
- Local storage indicators
- USB 2.0 port

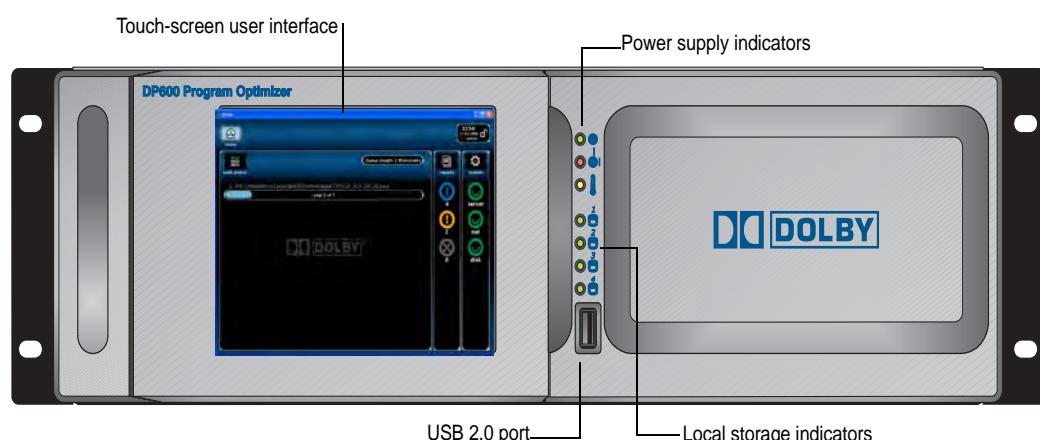


Figure 1-3 DP600 Front Panel

1.5.1 Touch-Screen User Interface

The LCD touch screen provides user controls for the initial configuration; rescheduling, canceling, and pausing work orders and reports; and checking the system status. You simply touch the icon that represents the desired function, and the DP600 responds accordingly. To add and configure work orders and export reports, you need to use the DP600 client, as described in [Using the DP600 Remote Client Software](#). For a complete description of all work order functions, see [Understanding Work Orders](#).

1.5.2 CD/DVD-ROM Drive

The CD/DVD-ROM drive is located behind the touch-screen door. With this drive, you can perform DP600 software upgrades.

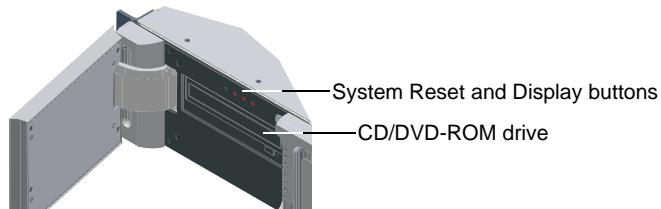


Figure 1-4 DP600 CD/DVD-ROM Drive (Behind Touch-Screen Door)



Note: You cannot play commercial CDs or DVDs in the DP600 CD/DVD-ROM drive.

1.5.3 System Reset and Display Controls

These recessed buttons are located behind the touch screen, above the CD/DVD-ROM drive. If you need to press any of these buttons, use a nonconductive material, such as a toothpick.

If you press the **System Reset** button, the system restarts. Press this recessed button only if you cannot restart the system by pressing **<Ctrl> + <Alt> + <Delete>**. Always avoid restarting by disconnecting and reconnecting the power cables.

You can use the **Display** control button to adjust the LCD.

1.5.4 Power Supply Indicators

Three power supply LEDs on the front panel indicate whether the power is on, if one of the redundant power supplies has failed, and the temperature of the unit.



Power: This green LED lights when the DP600 has power.



Power supply failure: This red LED is off during normal operation. It lights or flashes red if either of the redundant power supplies fails.



Temperature: This tricolor LED glows green when the temperature of the unit is cool, yellow if the temperature is warm, and red if the temperature is hot. If this LED is yellow or red, the operating environment may be warmer than expected and in need of modification. In such a case, call your Dolby authorized technical representative immediately.

1.5.5 Internal Drive Indicators



The DP600 has five physical internal hard drives. Drives 1 and 2 are arranged in a RAID 1 configuration to provide protection for the operating system as well as local storage. The remaining three hard drives are configured as separate drives to provide local storage. This configuration of one RAID pair and three separate drives represents four logical drives.

There are four bicolor LEDs on the front panel, labeled **1**, **2**, **3**, and **4**. These LEDs indicate the status of the four DP600 logical internal hard drives. The drive LEDs function as follows:

- Off (nonilluminated): Indicates a functional drive with no current disk access activity
- Green: Indicates normal drive activity
- Red: Indicates a drive failure

LED **1** shows the status of the two-drive RAID 1 configuration. The operating system is installed on these mirrored drives to prevent an inoperable system due to the physical failure of a single drive. If either of the mirrored drives fails, the other RAID drive enables the system to operate normally until the failed drive is replaced.

LEDs **2**, **3**, and **4** indicate the status of the other three physical disks. These disks are configured as separate drives and do not have RAID backup capability. If any of these drives fail, the failed drives must be replaced, and any work orders in progress during the failure must be restarted.

If one of the drive LEDs turns red, refer to [Table 1-1](#) to determine which physical drive failed. Typically, the DP600 automatically rebuilds the RAID array when one of the RAID drives has a problem or is replaced (with the power on). During the RAID rebuild process, LED **1** blinks in red in half-second intervals. When the rebuild process is complete, LED **1** stops blinking.

In some instances (for example, if you replace a non-RAID drive), you must initiate the rebuild process manually, as described in [Replacing a Drive](#).

If you replace both RAID drives, you also need to reinstall the DP600 software. In such a case, follow the instructions for a clean installation in [Upgrading or Installing the DP600 Software](#). When you reinstall the software, the system automatically synchronizes the two RAID drives, re-creating the original mirrored RAID array (manual rebuild not required).

For instructions on replacing a drive, see [Replacing a Drive](#).

Table 1-1 Local Storage LED Conditions

Front-Panel LED	Condition	Failed Physical Drive
1	Solid red	1
1	Blinks in red in two-second intervals	2
1	Blinks in red in half-second intervals	Rebuilding RAID
2	Solid red	3
3	Solid red	4
4	Solid red	5

1.5.6 USB 2.0 Port

- The front-panel USB 2.0 port is provided for license loading from a USB flash drive or to connect the provided USB keyboard.

1.6 DP600 Rear Panel

The DP600 rear panel includes the following active components:

- Dual-redundant power supplies (with red alarm reset button)
- PS/2 ports: To connect a PS/2 keyboard and/or mouse
- USB 2.0 ports: To connect a USB flash drive for license loading and/or a USB keyboard and mouse
- 10/100/1000Base-T Ethernet port (with autodetection): To connect to your network
- SVGA or DVI monitor port: To connect a monitor, which mirrors the front-panel touch screen
- Fans

[Figure 1-5](#) and [Figure 1-6](#) show the currently active components on the DP600-A and DP600-B rear panels.

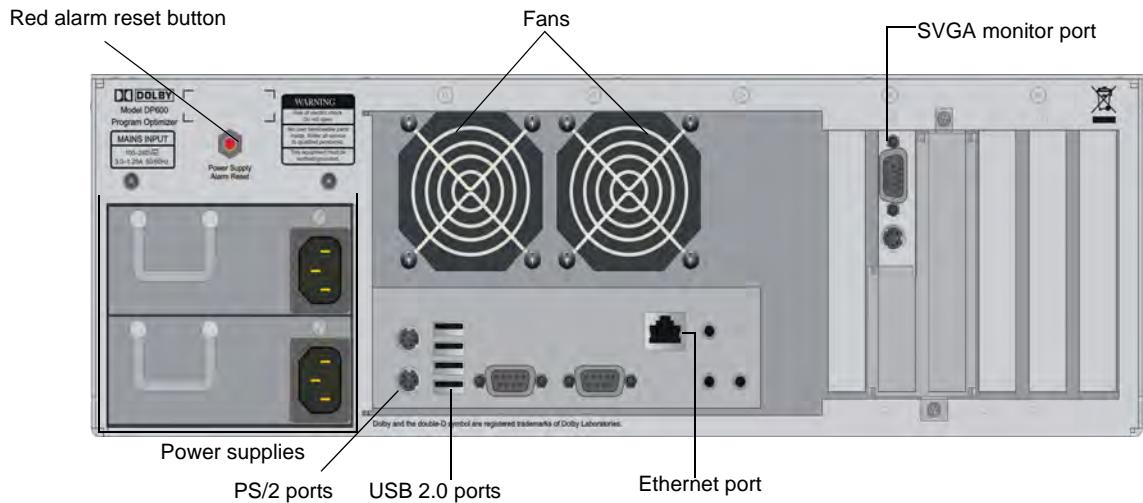


Figure 1-5 DP600-A Rear Panel

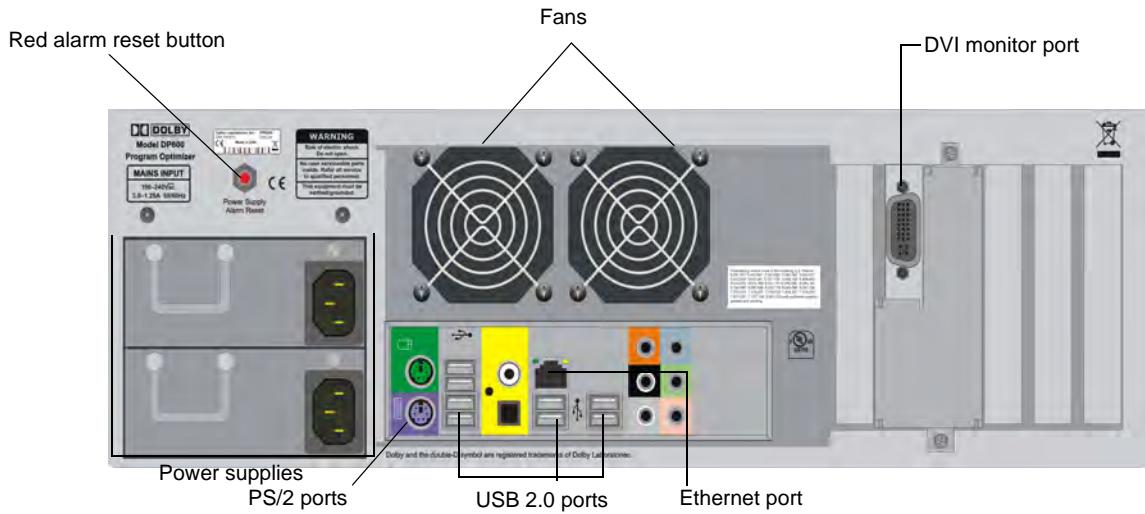


Figure 1-6 DP600-B Rear Panel

Send Us Your Feedback

If you have a question or a comment regarding this manual, [send us an email](#).

Using the DP600

This chapter provides Dolby® DP600 installation instructions and explains how to use the system.

2.1 Installing the DP600 Hardware

To install the DP600:

1. Connect one end of the provided Ethernet cable to the Ethernet port on the DP600 rear panel, then connect the other end of the cable to your network
2. Connect both power supplies to a power source using the provided power cables.

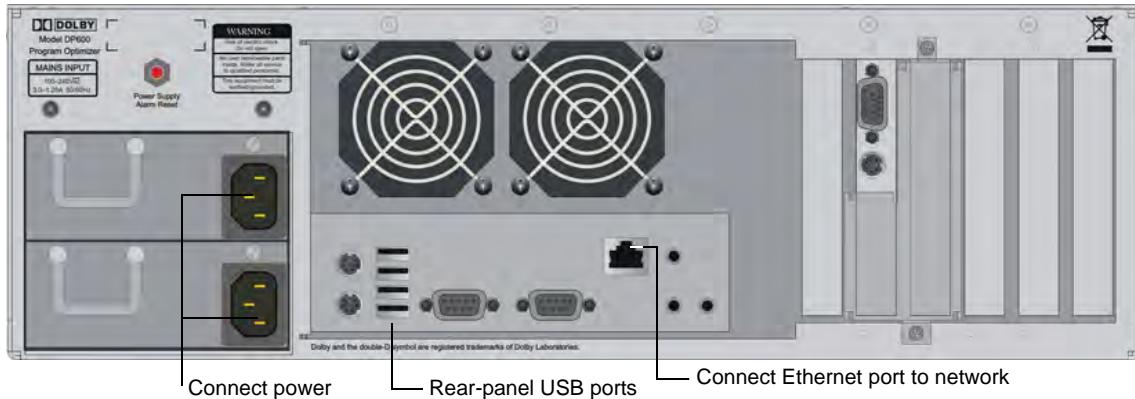


Figure 2-1 Connect DP600-A to Network



Note: Some early DP600-A models have two Ethernet ports. The lower Ethernet port is nonfunctional on these units.

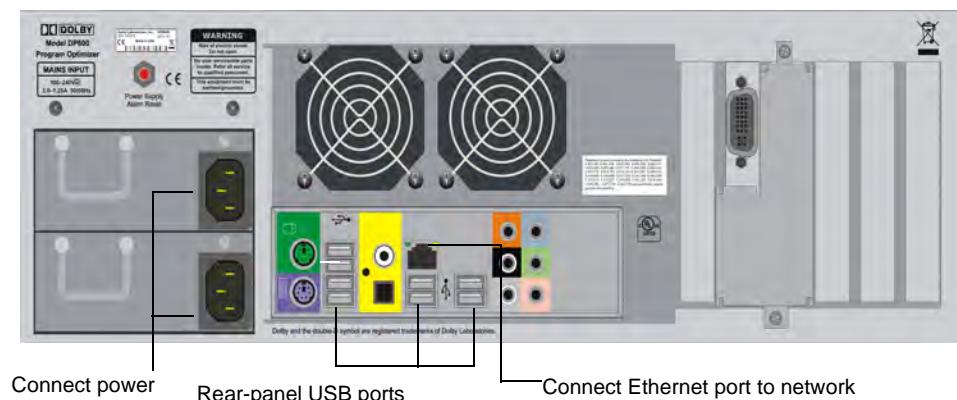


Figure 2-2 Connect DP600-B to Network

3. Connect the provided USB keyboard to the DP600 front-panel USB port or one of the rear-panel USB ports. Typically, when initially configuring the system, you use the touch screen, as explained in [Starting the System for the First Time](#), but you can also use the keyboard.

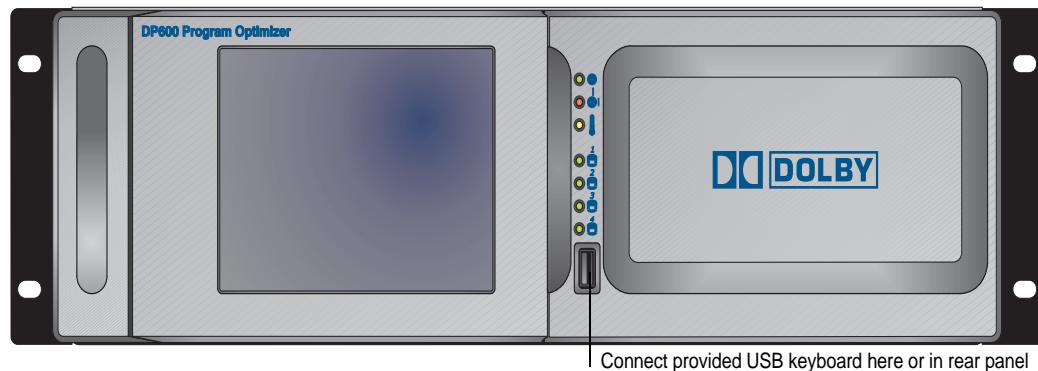


Figure 2-3 Connect DP600 Keyboard (Front-Panel Connection)

2.2 Starting the System for the First Time



Note: Before starting the system, be sure it is connected to an active network. To download your license and enable the DP600, you also need a PC with Internet access and an available USB port, and the USB device provided with your unit.

The DP600 touch screen provides a user-friendly interface where you perform actions by pressing the respective screen area. The touch screen is calibrated during the manufacturing process.

When you start the DP600 for the first time, the DP600 **Welcome!** screen is displayed, which provides a checklist of things you need before you can set up the system, as shown in [Figure 2-4](#).

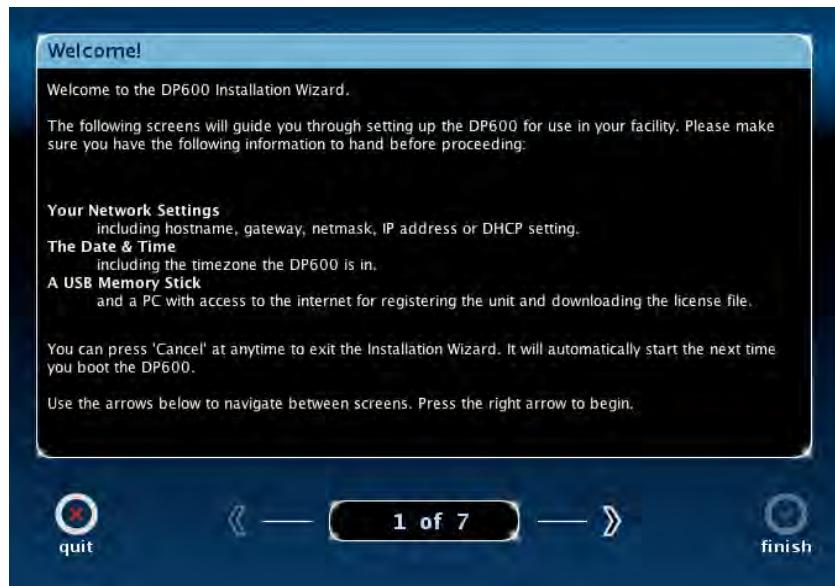


Figure 2-4 DP600 Welcome! Screen

To configure the system:

1. After ensuring you are ready to proceed by checking the **Welcome!** screen, press the right arrow at the bottom of the screen.

The **Restore** screen is displayed, as seen in [Figure 2-5](#), from which you can begin the procedure to restore data from the DP600 external backup. If you want to perform a system restore procedure, see [Restoring Data and Settings](#). If not, continue to the next step.



Figure 2-5 Restore Screen

2. Press the right arrow at the bottom of the screen again.

The **Network Information** screen is displayed, showing the current network settings, as shown in [Figure 2-6](#).

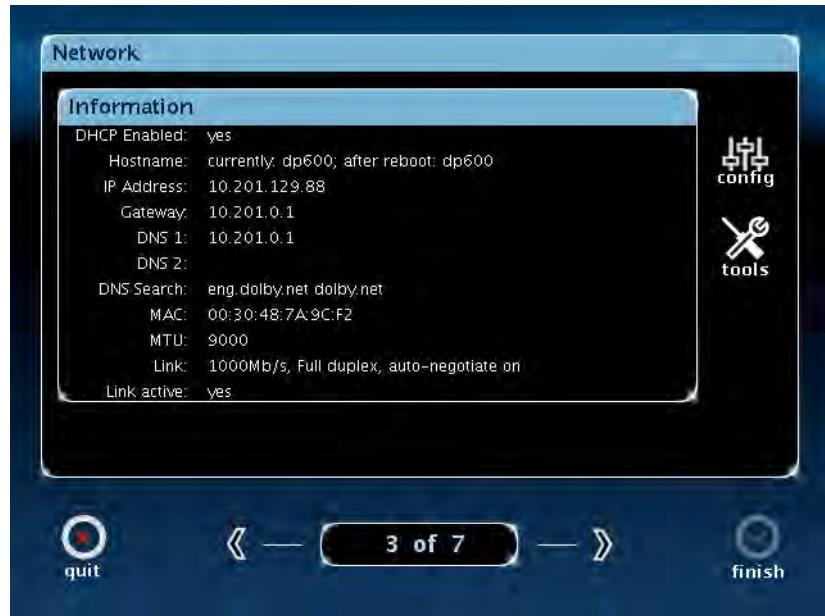


Figure 2-6 Network Information Dialog Box

3. Press the **config** button on the right side of the screen.

The **Network Configuration** dialog box is displayed, as shown in [Figure 2-7](#). Before you set up the system, the IP address is displayed only if you enter a static IP address (DHCP unchecked). If you are using DHCP, the IP address is not displayed until you complete the system setup.



Note: In this dialog box, and in all of the following DP600 setup screens, you enter information to configure your system. If you press the **quit** button at the bottom left corner of any of the following setup screens, the system cancels all of your entries (in all of the setup screens, in addition to the currently displayed setup screen). A cancel confirmation prompt is displayed. If you confirm, the unit cancels your entries and automatically reboots, and then the **Welcome!** screen is displayed again. At this point, you can reenter your settings.

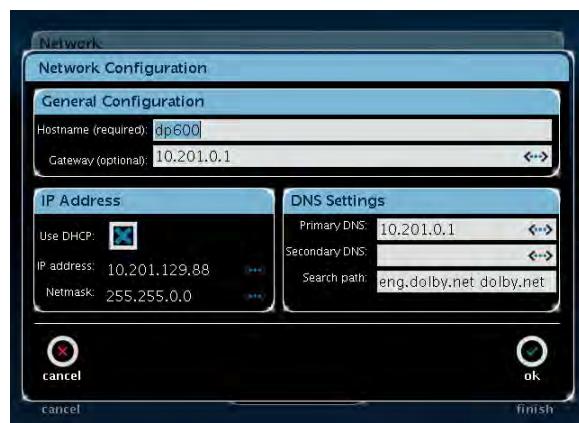


Figure 2-7 Network Configuration Dialog Box

4. In the **General Configuration** box, press the **Hostname** field.

The **Enter Hostname** alphanumeric keypad is displayed, as shown in [Figure 2-8](#). A keypad is displayed in the appropriate format where you need to make entries using the touch screen.

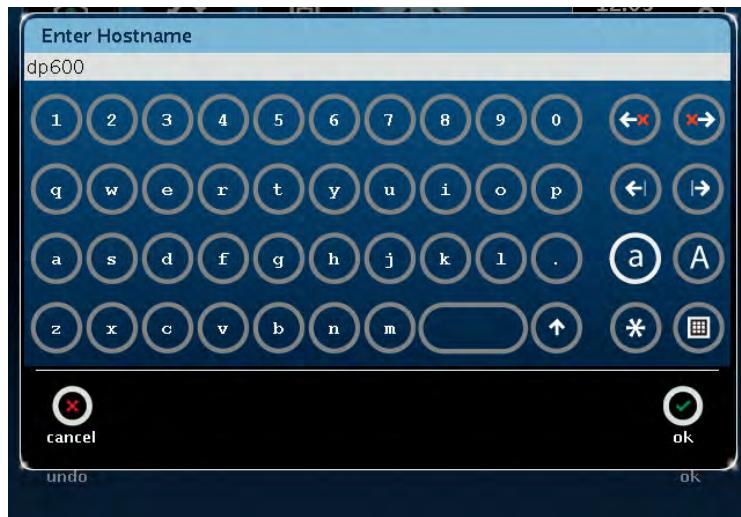


Figure 2-8 Hostname Keypad

5. Press on the desired keys to enter a host name, then select **ok**.

Be sure to enter a unique name using only alphanumeric characters, hyphens, and periods (for example, **dp600-unit-1**).

6. In the **General Configuration** box, press on the **Gateway** field.

The **Enter Gateway Address** number pad is displayed, as shown in [Figure 2-9](#).

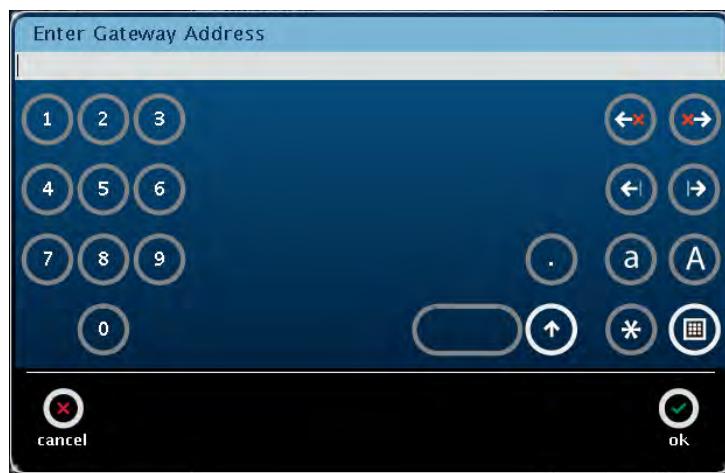


Figure 2-9 Enter Gateway Address Number Pad Screen

7. Press on the desired numbers to enter an optional gateway address, then select **ok**.
8. In the **IP Address** box, press the **Use DHCP** box (if it is unchecked) for dynamic addressing or uncheck this box (by pressing on it) if you want to enter a static IP address.
9. If you specified a static IP address, the respective fields are now active. Make your entries by pressing on the **IP Address** and **Netmask** fields to display the corresponding number pad screens, then press on the appropriate numbers. (See the gateway address number pad instructions described in step 5.)
Alternatively, you can press on the field, and then use the USB keyboard to make your entries.
10. In the **DNS Settings box**, press on the **Primary DNS** and **Secondary DNS** fields and enter the desired settings.
11. Press **OK** to save your network configuration.
The **Network Information** dialog box (shown in [Figure 2-6](#)) is displayed with your network settings, except for your unique host name. You need to reboot the system to display the new host name.
12. Press **Tools** in the **Network Information** screen.
The **Network Tools** dialog box is displayed, as shown in [Figure 2-10](#). In this screen, you can enter a remote host and perform ping or trace route operations by pressing the respective button (see [Figure 2-11](#) and [Figure 2-12](#)).



Figure 2-10 Network Tools Dialog Box

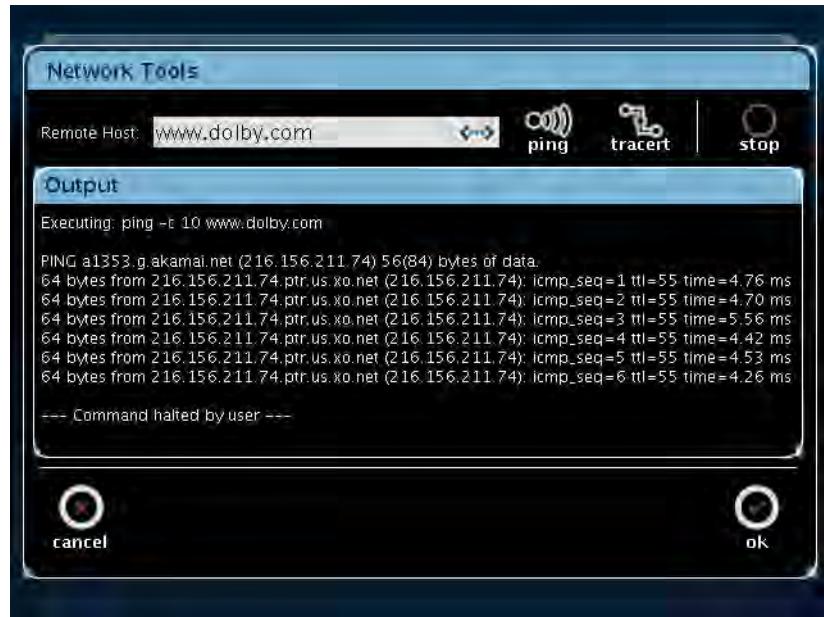


Figure 2-11 Network Tools Ping



Figure 2-12 Network Tools Trace Route

13. Press **ok** in the **Network Tools** dialog box.

14. Press the right arrow at the bottom of the **Network Information** screen.

The **Date & Time Information** screen is displayed, as shown in [Figure 2-13](#). This screen displays the current date and time settings.

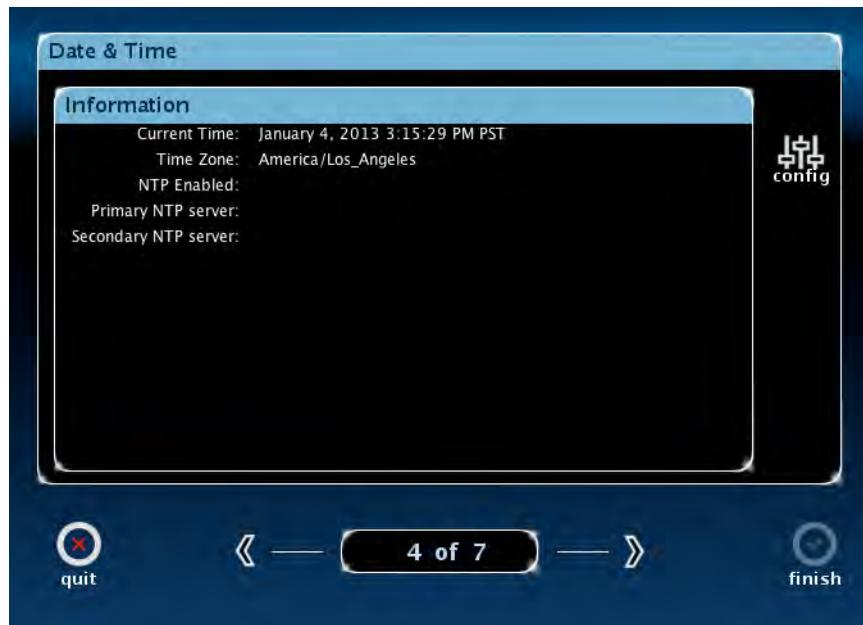


Figure 2-13 Date and Time Information Screen

15. Press **config** in the **Date & Time Information** screen.

The **Time Configuration** dialog box is displayed, as shown in [Figure 2-14](#). In this screen, you can set up a Network Time Protocol (NTP) configuration or enter the date and time manually.

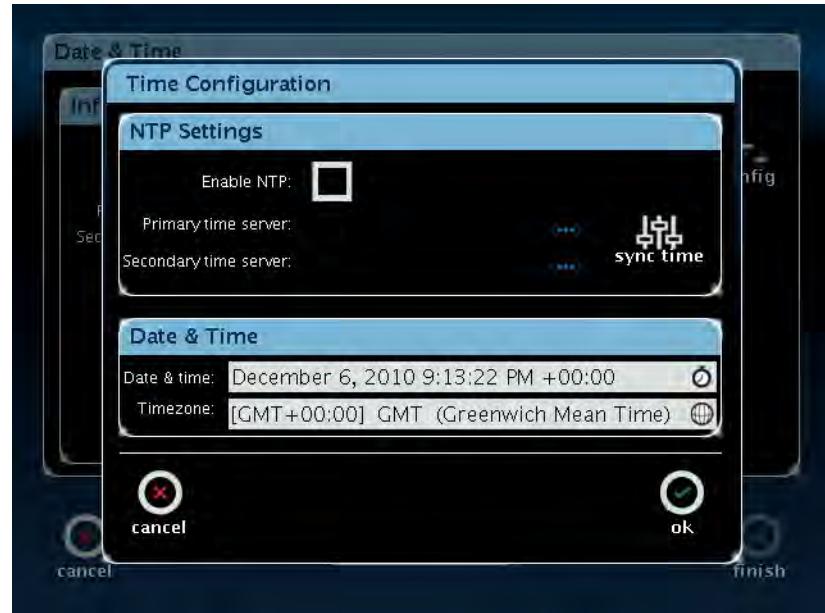


Figure 2-14 Time Configuration

16. If you want to use an NTP server, press the **NTP** box. If not, follow steps 18–22 to enter the date and time and your time zone.

The **Primary time server** and **Secondary time server** (optional) fields are displayed for the NTP setup.

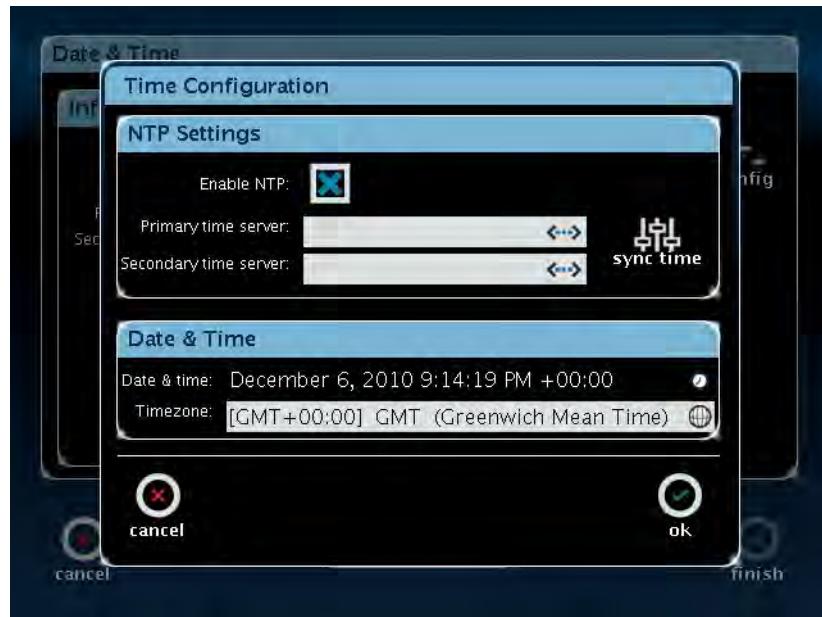


Figure 2-15 NTP Settings Fields

17. Enter the desired NTP servers using the displayed keypad, and press **sync time**. Your NTP settings are displayed in the **Date and Time Information** screen (shown in [Figure 2-13](#)).

18. After setting up NTP, follow steps 20–22 to enter your time zone.

19. To set the date and time manually, press the **Date & Time** field.

The **Set Server Date/Time** screen is displayed, as shown in [Figure 2-16](#).

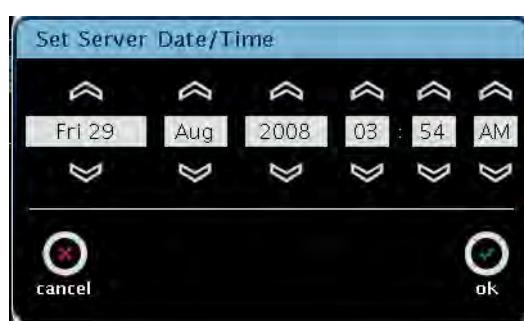


Figure 2-16 Set Server Date/Time Screen

20. Press the up and down arrows above and below each field to set the server date and time, then press **ok**.

21. After setting up NTP or entering the date and time manually, press the **Time Zone** field.

The **Select Region** screen is displayed, as shown in [Figure 2-17](#).



Figure 2-17 Select Region Screen

22. Press on your region, then press the right arrow.

The **Select City or Zone** screen is displayed for your region, as shown in [Figure 2-18](#).

You need to select your closest city to ensure that submitted work orders run at the scheduled time.



Figure 2-18 Select City or Zone Screen

23. Press on your closest city, then press **finish**.

The **System Properties** screen is displayed showing the current properties, as seen in [Figure 2-19](#).

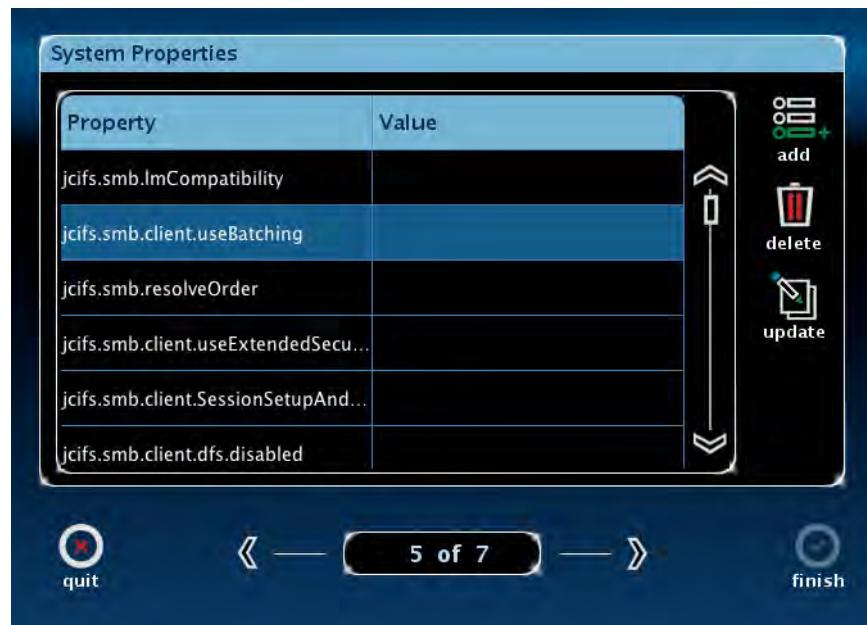


Figure 2-19 System Properties Screen

24. If you do not need to add or change properties, press the right arrow at the bottom of the screen.

Note: If the displayed properties do not include all those you need, or if you want to change or delete a property in your list, contact Dolby support before proceeding with any change options.

With the participation of Dolby support personnel, you can do any of the following:

- To add a property to your list, press **add**.

The **Enter New Property** screen is displayed, as shown in [Figure 2-20](#).



Figure 2-20 Enter New Property Screen

- b. Using the displayed keypad, enter a name and value for the new property, then press **ok**.

The new property is saved and is included in the list of all properties.

- c. To edit a property in the list, press **update**.

The **Edit Property** screen is displayed, as shown in [Figure 2-21](#).



Figure 2-21 Edit Property Screen

- d. Using the displayed keypad, enter the name and new value for the existing property, then press **ok**.

The new value is saved and applied to the property.

- e. To delete an existing property, press the desired property shown in the **System Properties** screen (Figure 2-19), then press **delete**.

The property is deleted from the list.

25. After adding, updating, or deleting any properties, press the right arrow at the bottom of the screen. If you did not use any of these options, this step is unnecessary. The **License** screen is displayed, as shown in Figure 2-22. This screen displays the unit **Serial Number** and user personal identification number (**PIN**). Note these two numbers; you need them to license your unit for operation.

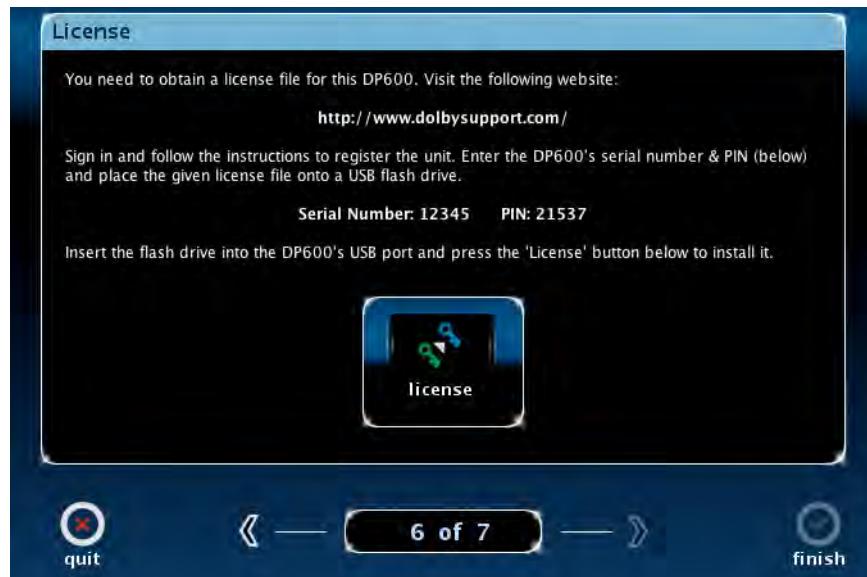


Figure 2-22 License Screen

26. Locate the USB flash device in the DP600 packing kit, and insert it into a PC with Internet access.
27. Open a web browser, and go to www.dolbysupport.com.
28. If you have previously registered, simply log in.
29. If you are a new user, take a few moments to register.

30. Once logged in, select **Product Registration** on the Dolby Support homepage, as shown in [Figure 2-23](#).

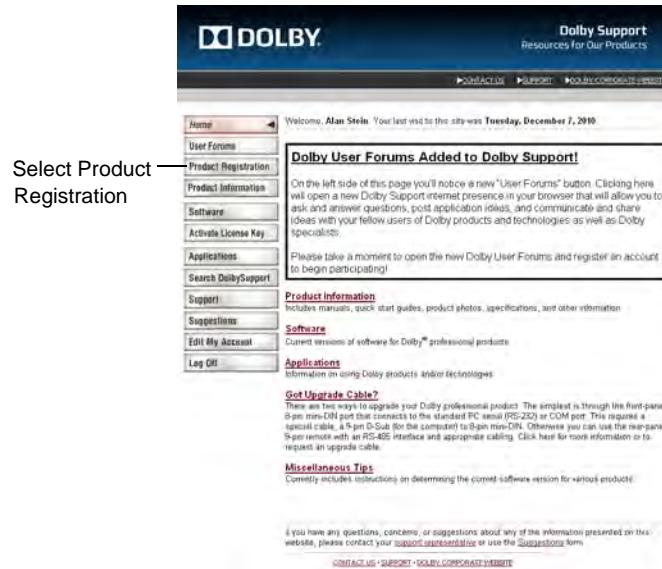


Figure 2-23 Select Product Registration on Dolby Support Homepage

The **Product Registration** page is displayed, as shown in [Figure 2-24](#).



Figure 2-24 Product Registration Page

31. Select **Register a New Product**.

The **Registered products** section is displayed, as shown in Figure 2-25.

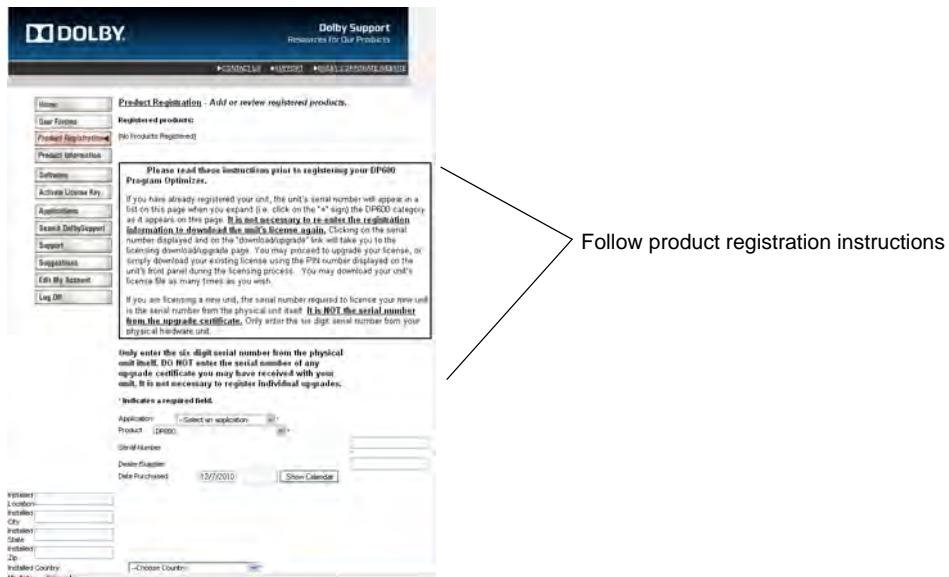


Figure 2-25 Registered Products Section of Product Registration Page

32. Follow the instructions on the screen for new units and for registered units. For new units, enter the required information in all of the fields. (The unit **Serial Number** is displayed on the DP600 touch screen, as shown in Figure 2-22.)

Fields marked with an asterisk (*) are required.

33. Select **Update** at the bottom of the page to display the licensing **download/upgrade** link.
34. Click on the licensing **download/upgrade** link.
35. Download your license file to the USB flash device inserted in your PC.
This file is the license for your DP600 system (including any upgrades).
36. Remove the USB flash device from your PC, and insert it into one of the DP600 USB ports.
It will take a few seconds for the DP600 to recognize the license.
37. Press the **license** button in the **License** screen.
A confirmation prompt informs you that the license installed successfully.



Note: If the system does not install the license, press the **license** button again. The system may take a few seconds to recognize the inserted USB flash device containing the license file.



Figure 2-26 License Confirmation Prompt

38. Press **ok**.

The **Finished!** screen is displayed.

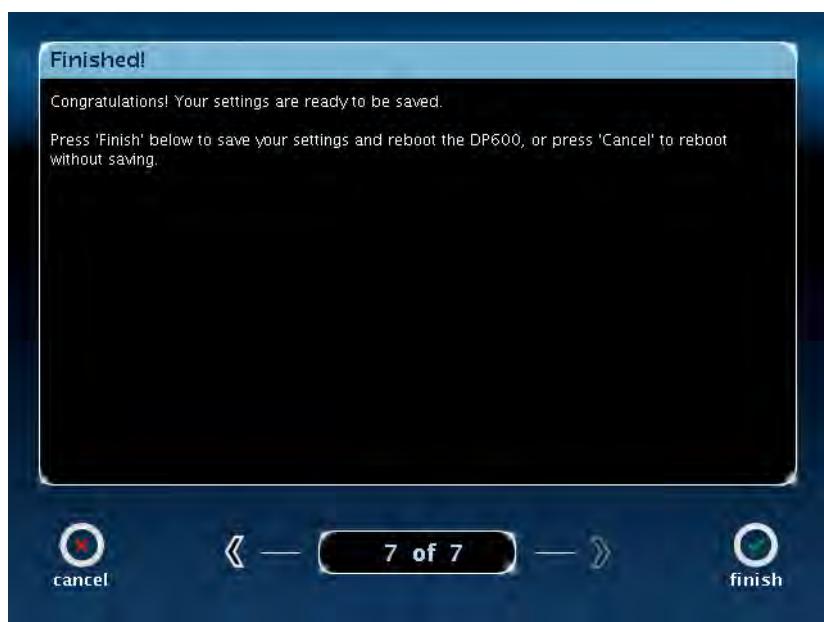


Figure 2-27 Finished! Screen

39. Press **finish**.

The DP600 setup is now completed, and the system automatically reboots. During the reboot process, remove any discs in the CD/DVD-ROM drive, as the system attempts to boot from any inserted disc. If an installation disc is inserted, the system begins a new installation.

You can repeat the previous steps for each license you want to download and each upgrade you want to apply to your license.



Note: If you are a DP600 system administrator, go to [Appendix C](#) for instructions on setting up user IDs and access levels and performing other administrative tasks.

2.2.1 DP600 Home Screen

After you complete the DP600 setup, the unit automatically reboots and the DP600 **home** screen displays, as shown in [Figure 2-28](#).

This screen displays the date and time at the upper-right corner. The system status in the right column shows icons indicating the current status of the **server**, network (**net**), and **disk** (for each installed hard drive). A green happy face icon  indicates correct functionality. A red sad face icon  indicates a problem; if you see this icon, you need to check for more details, as described in [Using the System Screen](#).

The **work orders** and **reports** icons are also displayed in the **home** screen. The work order and report functions are described in [Creating a Work Order](#).

Note the lock icon next to the date and time. When this icon is in the locked  position, the system is in viewer-only mode, as shown in [Figure 2-28](#). In this mode, you can display some information and check the system status, but you cannot operate the system or perform administrative functions. To operate the system, obtain a **user** level ID from your DP600 system administrator. System administrators can also perform all **user** level functions.

To gain access to specific functions, press the lock icon to log in with the appropriate **user** level ID and password. When you log in, the lock icon changes to the unlocked  position and your ID is displayed below the time and date, as shown later in this chapter (see [Figure 2-48](#)).

After 30 minutes of idle time, the system returns to the locked position, but you should log out by pressing the lock icon and pressing **logout**—to lock the system—whenever you are done working in the unlocked mode.

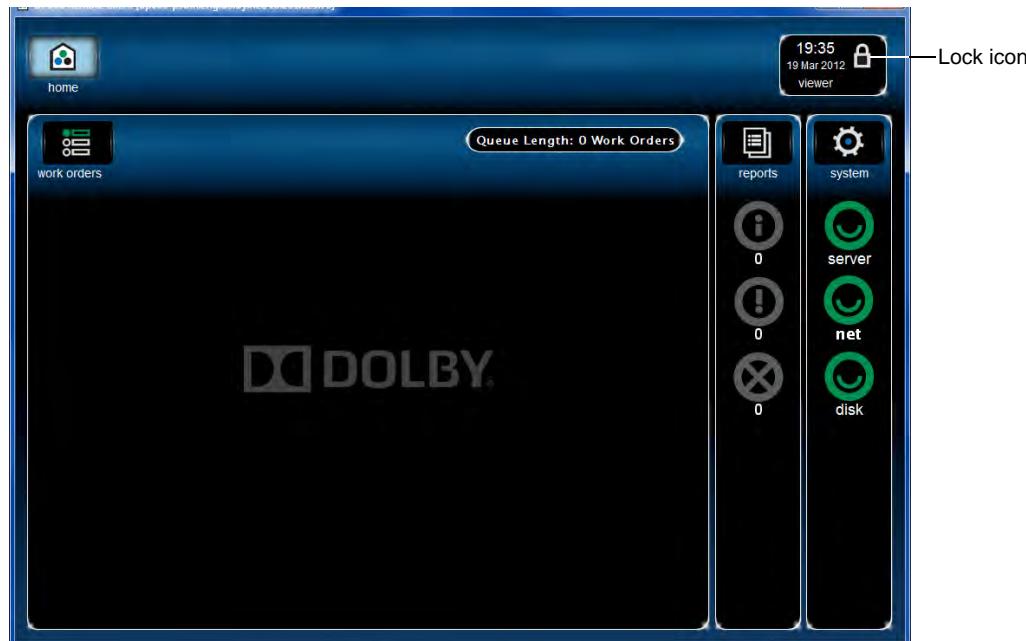


Figure 2-28 DP600 Front-Panel Home Screen

2.2.2 Using the System Screen

The **system** screen allows you to check the system information and status. In addition, if you have an **admin** level ID, you can also reconfigure the network and date and time, upgrade your license, archive and delete files, and reboot or shut down the system.

Checking the System Information and Status

To check the system information and status:

1. Press **system**  at the upper-right corner of the **home** screen.

When the system is locked, the **system** screen is displayed, as shown in [Figure 2-29](#). In this state, you can access only the **info** and **status** functions. The **config**, **upgrade**, **maintenance**, and **power** functions have locks displayed, indicating that you must log in with an **admin** ID and password to access the respective functions, as described in [Appendix C](#). The **info** and **status** functions do not require a password.



Figure 2-29 System Screen

2. Press **info**  in the **system** screen.

The **info** screen is displayed, as shown in [Figure 2-30](#). This screen displays the current **Software Information**, **Server Network Information**, and **Licensed Configurations**.



Figure 2-30 Info Screen

3. Press **status**  in the **system** screen.

The **status** screen is displayed, as shown in [Figure 2-31](#). In this screen, you can check the **volumes** and **disks** status by pressing the respective icons.

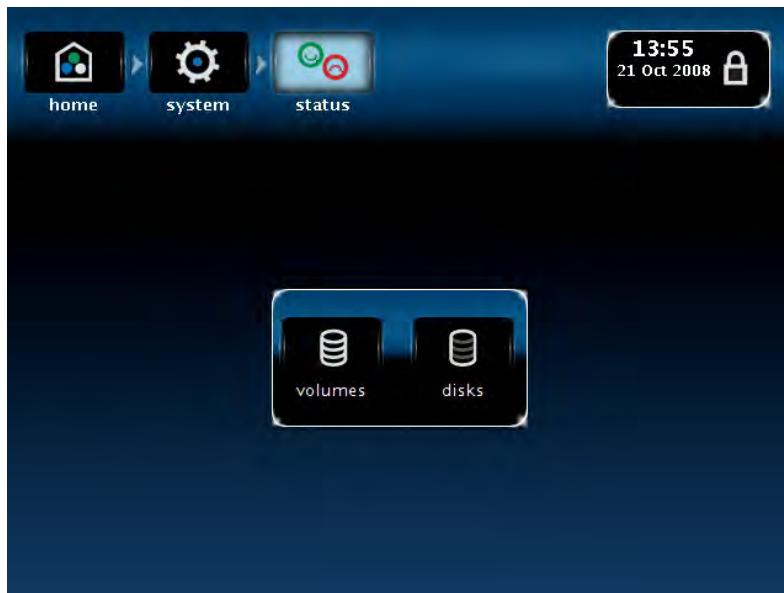


Figure 2-31 Status Screen

4. Press **volumes**  in the **status** screen.

The **volumes** screen is displayed, as shown in [Figure 2-32](#), which displays the storage status for each disk volume. When any volume exceeds 90% capacity, the disk happy face on the **home** screen turns to a sad face. In addition to the system internal storage, this screen displays the status of your work order source and destination external storage. (For more information on source and destination, see [page 35](#) and [page 36](#).)

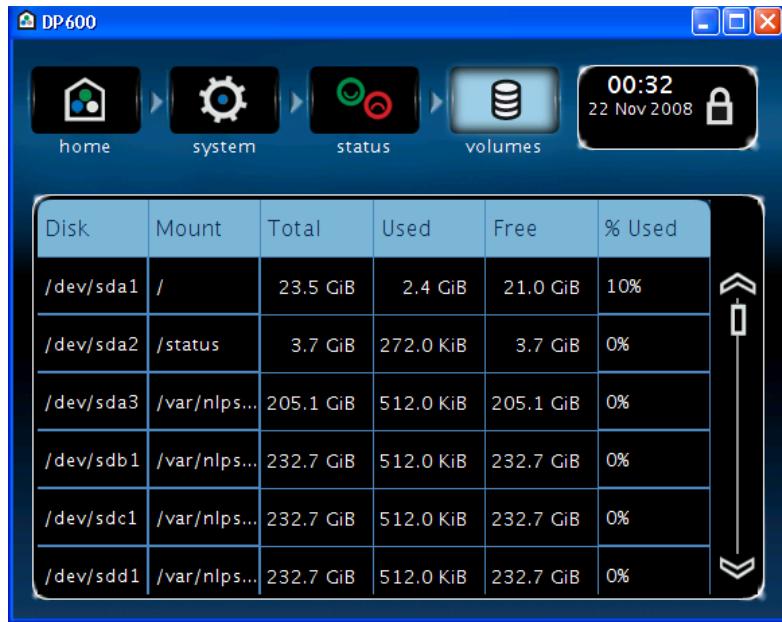


Figure 2-32 Volumes Screen

5. Press **disks**  in the **status** screen.

The **disks** screen is displayed, which displays the status for each RAID drive, as shown in [Figure 2-33](#).



Figure 2-33 Disks Screen

2.3 Using the DP600 Remote Client Software

To process audio using the DP600, you need to use the Dolby DP600 Remote client software (also referred to as “DP600 client” or “client”). With this application, you can define and run an operation we call a work order. This application looks similar to the front-panel touch screen, but provides more user control functions. For example, with the client, you can:

- Add and configure work orders
- Run work order profiles to analyze dialogue levels, perform dialogue normalization, and encode, decode, transcode or convert, and upmix audio files
- Export work order reports



Note: The DP600 client runs on Microsoft® Windows® and Apple® Macintosh® computers. Currently, we support Microsoft Windows XP, using Internet Explorer® 8 or later, Windows 7 using Internet Explorer 9 or later, Windows 8 using Internet Explorer 10, Mac® OS® X® Snow Leopard 10.6.8, OS X Lion 10.7, and OS X Mountain Lion 10.8 using Safari® 5.1.2 or later. Other browsers and operating systems are untested or unsupported.

2.3.1 Understanding Work Orders

Currently, there are ten types of work orders:

- Standard
- Pinnacle standard
- Omneon™ standard (for use with Omneon servers only)
- Multifile standard
- Mono-only standard
- Hot folder
- Pinnacle hot folder
- Omneon hot folder (for use with Omneon servers only)
- Grass Valley® hot folder
- Mono-only hot folder

Standard, Pinnacle Standard, and Omneon Standard Work Orders

These types of work orders process audio on a file-by-file basis. You specify the path to the source file on your PC or anywhere on the network. You also specify a destination where you want to save the processed file. Pinnacle work orders are designed specifically for Pinnacle Systems MediaStream server files. Omneon work orders are designed specifically for Omneon server files and are incompatible with other formats.

Multifile Standard Work Order

This type of work order processes multiple files as if they were a single file. The system measures each file for loudness and uses the overall results to apply the same value to each file. You specify the path to the source files on your PC or anywhere on the network. You also specify a destination where you want to save the processed files.

Mono-Only Standard Work Order

This type of work order processes audio in mono on a file-by-file basis. Each file represents a single channel of a multichannel program. You specify the path to the source files on your PC or anywhere on the network. You also specify a destination where you want to save the processed file.

Hot Folder Work Order

With this type of work order, you specify the path to a source folder on your PC or network where the audio files you want to process are located. The DP600 periodically looks for files of a specific type in this folder, which is controlled by the work order profile. The work order profile associated with your hot folder also determines how the DP600 processes the files. In addition, you specify the destination where you want to save the processed files. When the DP600 sees the specified file type in the source directory, it processes those files according to the current profile, and then saves the processed files in the destination folder.



Note: You can link only one work order profile with a single hot folder. However, you can create multiple hot folders, each with a different profile.

Pinnacle Hot Folder Work Order

This type of hot folder is designed specifically for Pinnacle MediaStream server files.

Omneon Hot Folder Work Order

This type of hot folder is designed specifically for Omneon server files and is incompatible with other formats.

Grass Valley Hot Folder Work Order

This type of hot folder is designed specifically for Grass Valley Profile® and Profile XP server files.

Mono-Only Hot Folder Work Order

The system processes audio in mono on a file-by-file basis. Each file represents a single channel of a multichannel program. You also specify a destination where you want to save the processed files.

Work Order Profile

While the type of work order indicates how the DP600 accesses audio files, the work order profile controls the processing specifications (for example, whether the DP600 performs audio loudness analysis and correction, transcoding and conversion/encoding/decoding, or other actions on the respective audio files).

2.3.2 Running the DP600 Client

To run the client:

1. Open your browser, and go to <http://<dp600 server>/>, where <dp600 server> is the host name or IP address of the DP600 (for example, <http://zico.eng/> or <http://10.201.1.88/>). After you open the client for the first time, a shortcut is displayed on your desktop and in the **Start > All Programs > Dolby Laboratories** menu.

The **DP600 Program Optimizer** splash screen is displayed, as shown in [Figure 2-34](#).

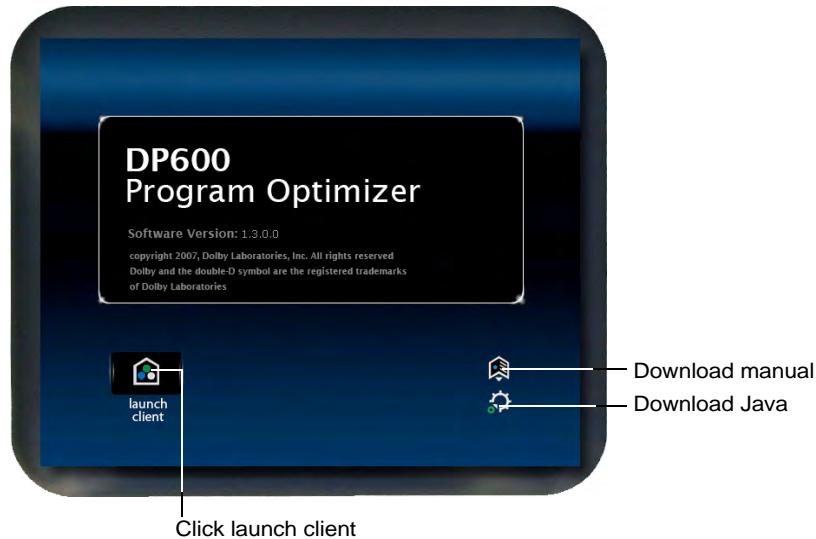


Figure 2-34 DP600 Program Optimizer Splash Screen

2. Click **launch client** in the splash screen.

Oracle® Java™ Web Start launches, the client automatically connects to the DP600, and the DP600 client **home** screen is displayed, as shown in [Figure 2-35](#). Subsequently, you can start the client with either the shortcut described in step 1, or by revisiting the DP600 web page and following the links again.

If the client PC does not have the correct version of the Java Runtime Environment (JRE) installed (Java 1.6.0_29 or later) and the client PC has access to the Internet, the correct version of Java installs automatically. If this fails, then you need to install the JRE manually by clicking the icon on the splash screen or going to www.java.com/en/download/manual.jsp?locale=en&host=www.java.com.

You can download a copy of the DP600 manual (this manual) by clicking the icon.

If the current version of client software is not already installed on the client PC, the correct version automatically downloads directly from the DP600 (no Internet access required).

You can install and run the client from multiple computers simultaneously. Client updates automatically occur each time the client runs on a specific PC. For this reason, the client is not really installed as such. You simply run the application from the DP600, which automatically downloads any necessary files and updates as required.

2.3.3 DP600 Client Home Screen

After launching the DP600 client, as described in [Running the DP600 Client](#), the DP600 client **home** screen displays on your PC. This screen looks similar to the **home** screen on the front-panel touch screen and you can perform many of the same functions using the client. You can also perform some additional functions. The client functions are described on the following pages. When a procedure says “click” something, this means that you can perform the respective function only with the client. If it says “press or click,” this means you can perform the respective function using the touch screen or the client. However, to access any of their respective locked areas, you must log in separately on the touch screen and the client.



Figure 2-35 DP600 Client Home Screen

2.4 Creating a Work Order

To create a work order:

1. Click **work orders** near the upper left corner of the **home** screen.



Figure 2-36 Displaying the Work Orders Screen

The **work orders** screen is displayed, as shown in Figure 2-37. In this screen, you can add and configure a work order and perform other related functions.

2. Click **add** at the right side of the **work orders** screen.



Figure 2-37 Adding a Work Order

The **Log In** screen is displayed, as shown in [Figure 2-38](#).

To add and configure work orders, you need to log in with a **user** or **admin** level ID and password. If you do not have an ID and password, contact your system administrator. If your system administrator has not yet set up IDs, a default ID and password is provided in [Setting Up an Administrator Level Password](#).

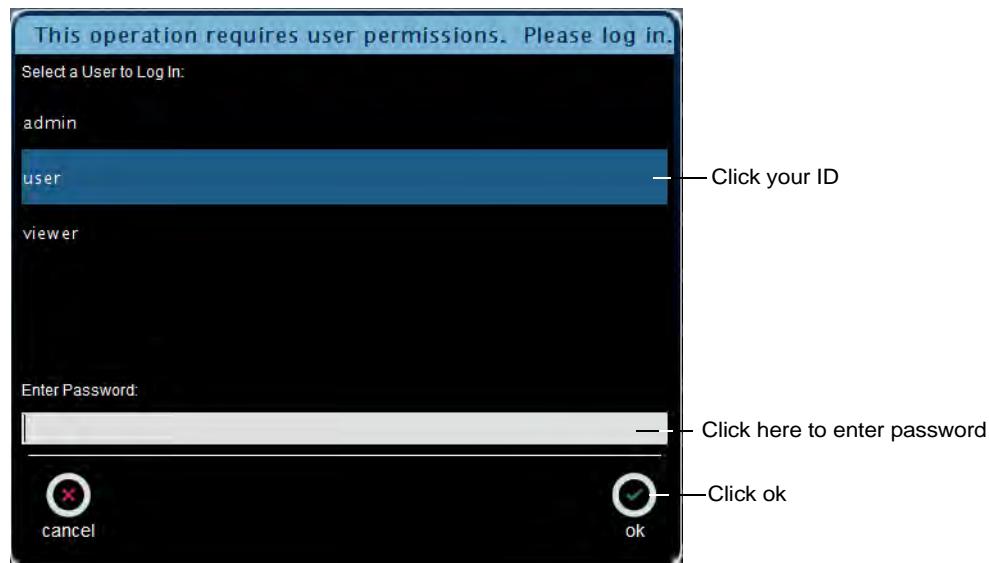


Figure 2-38 Log In Screen

3. Click your ID (**user** or **admin** level required), click in the **Enter Password** field, enter your password, and click **ok**.

The **Add Work Order** screen is displayed, as shown in [Figure 2-39](#) with the default standard work order selected. This is the same screen that is displayed for all types of work orders, except for a Grass Valley hot folder, as shown in [Figure 2-40](#).

In this menu, you can enter information in the displayed fields to configure your work orders. You can also click the **Additional Settings**  icon to enter notes and configure additional settings for hot folders.

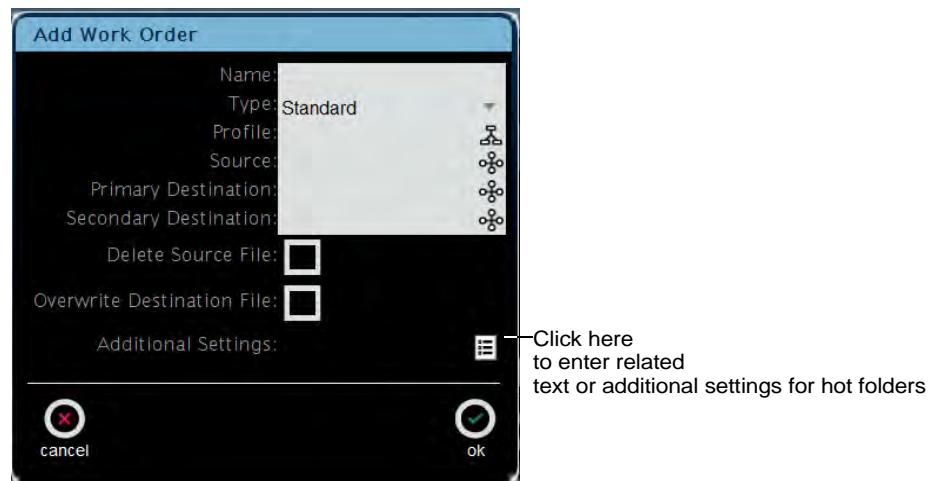


Figure 2-39 Add Work Order Screen (All Work Orders Except Grass Valley Hot Folder)

In the Grass Valley hot folder **Add Work Order** screen, you can also enter the **Destination** folder **IP Address** and **IP Port** port, as shown in [Figure 2-41](#).

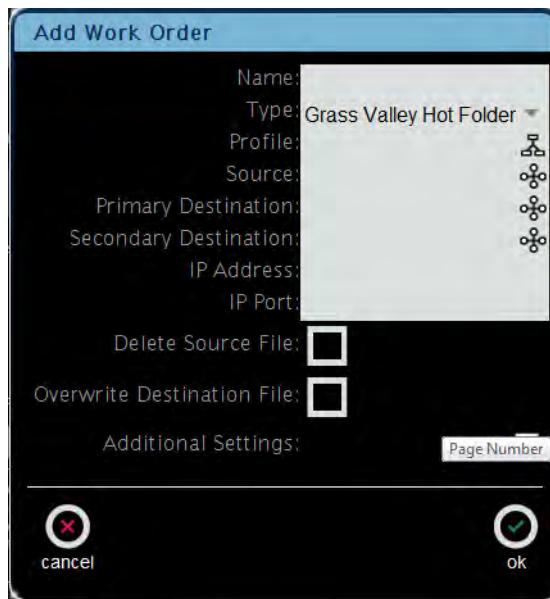


Figure 2-40 Add Work Order Screen (Grass Valley Hot Folder)

To set up your work order:

1. Click the **Name** field, then enter a name for your work order.
2. Click the **Type** field, then select the type of work order you would like to run (**Standard**, **Pinnacle Standard**, **Omneon Standard**, **Multifile Standard**, **Mono-Only Standard**, **Hot Folder**, **Pinnacle Hot Folder**, **Omneon Hot Folder**, **Grass Valley Hot Folder** or **Mono-Only Hot Folder**).



Note: **Omneon Standard** and **Omneon Hot Folder** work orders are licensed only for Omneon servers and are incompatible with other platforms.

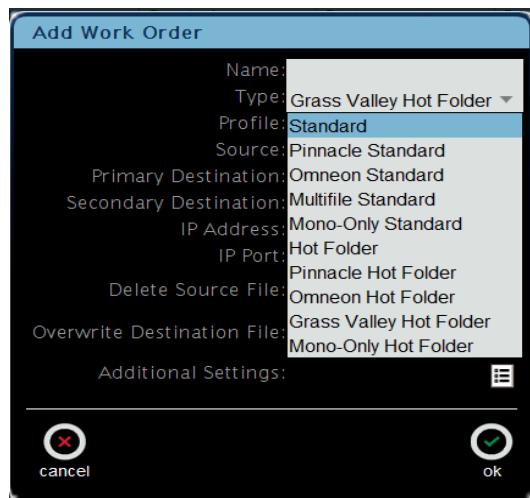


Figure 2-41 Select a Work Order Type Screen

3. Click the **Profile** field.

The **Select Profile** menu displays the list of profiles. Use the up and down arrows to scroll through the list. To display only the default profiles, click the **Show Default Profiles** box, as shown in [Figure 2-42](#).

When you click a profile, a short description of the selected profile is displayed (for example, **Dolby Digital (.ac3) to Dolby Digital Plus™ (.ec3)**).

Profiles that perform loudness correction require a standard DP600, whereas profiles that perform encoding, decoding, transcoding, and conversion require the enhanced DP600-C. Profiles that perform upmixing require the DP600 upmixing upgrade.



Note: For detailed descriptions of all the DP600 profiles, see [Appendix B](#). In addition, check the DP600 area of www.dolbysupport.com for periodic profile updates.

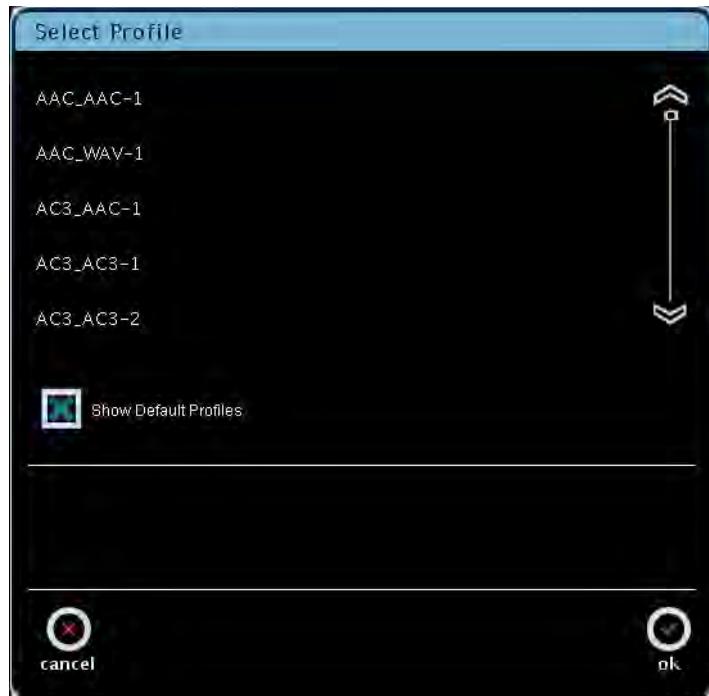


Figure 2-42 Selecting a Work Order Profile (Default Profiles Displayed)

4. Select the work order profile you want to use to process your files, then click **ok**.
5. Click the **Source** field.

The **Enter Path** screen is displayed, as shown in [Figure 2-43](#).

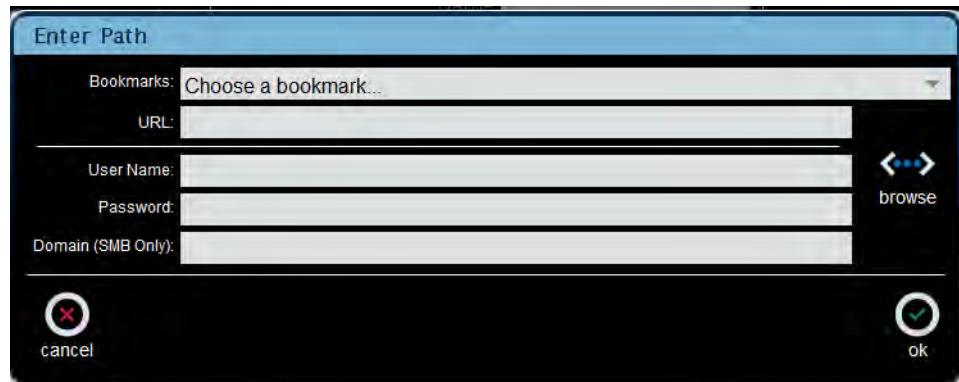


Figure 2-43 Enter Path Screen

In this screen, you can enter the path to the files or folder (for a hot folder) that you want to designate for processing. Before entering a path, be sure you are connected to an active network, and then set up a shared folder for all authorized users, as described in [Setting Up a Shared Folder](#).



Note: Supported file system protocols include FTP, SAMBA/CIFS, and SFTP.

If you are setting up a **Multifile Standard**, **Mono-Only Standard**, or **Mono-Only Hot Folder**, the **Enter Path** screen displays some additional data entry fields, as described in [Entering a Path for Work Orders with Multiple Files](#).

You can enter a path using any of the following methods:

- Enter a URL (directly)
Type the desired URL in the **URL** field. You must preencode your URL entry, which cannot include the username/password/domain information in the **URL** field (for example, `smb://dp600/users/common/hot_folder/`). If necessary, you can enter a **User Name**, **Password**, and **Domain** (SMB only) in the corresponding fields. After entering the URL, click **ok**.
- Browse to the desired location (not supported on Grass Valley servers)
Click **browse** to display the **Select Protocol** screen (if the **URL** field is blank) and select either **Windows Share/SMB** or **FTP** or **SFTP**, then click the right arrow and (if necessary) enter a **User Name**, **Password**, and **Domain** (SMB only) in the **Enter User Credentials** screen. Click the right arrow and enter a path in the **Enter Server Details** screen. Then click **finish** to display the **Select File** screen, click on the desired file or folder and click **ok**. If you want to create a bookmark, click on the desired file or folder in the **Select File** screen, click **add**, then click **ok**. If you click **browse** and the **URL** field is not blank, the system attempts to browse to the entered URL.

- Select a bookmark

Click on the **Bookmarks** field to display the bookmarks you added in the **Select File** screen (as previously described), then select the desired bookmark to specify the path and click **ok**. When you select a bookmark, it is automatically displayed in the **URL** field. If necessary, you must still enter a **User Name**, **Password**, and **Domain** (SMB only) in the corresponding fields each time you select the bookmark. After selecting the bookmark, you can click **browse** to go to the corresponding location.



Note: For complete details on entering a path using the preceding three methods, see [Entering a Source Path](#).

6. Use one of the previously described methods to enter the path to the file or folder (for a hot folder) that you want to designate for processing, then click **ok**.
Click the **Primary Destination** field.

The **Enter Path** screen is displayed. In this screen, you can enter the path to the folder where you want to save the processed files. This screen is identical to the **Enter Path** screen described earlier for the source path.

Optionally, you can enter a path to a second location to save the processed files. To do this, click the **Secondary Destination** field to display the **Enter Path** screen. This screen is identical to the **Enter Path** screen described earlier for the source path.

7. Click the **Delete Source File** box if you no longer need the file after the system processes the work order. This setting also works in conjunction with the **Enable Quarantine** feature, as described on [page 43](#).
8. Click the **Overwrite Destination File** box if you want to save another file with the same name when the system processes the work order.
9. For a Grass Valley hot folder work order, enter the **IP Address** and the **IP Port**.
10. Click the **Additional Settings**  icon.

The **Add Work Order Additional Settings** screen is displayed, as shown in [Figure 2-44](#) for **Standard** and **Hot Folder** work orders, and [Figure 2-45](#) for **Pinnacle Standard** and **Omneon Standard** work orders, **Pinnacle**, **Omneon**, **Grass Valley**, **Mono-Only** hot folders, and **Multifile Standard** and **Mono-Only Standard** work orders.

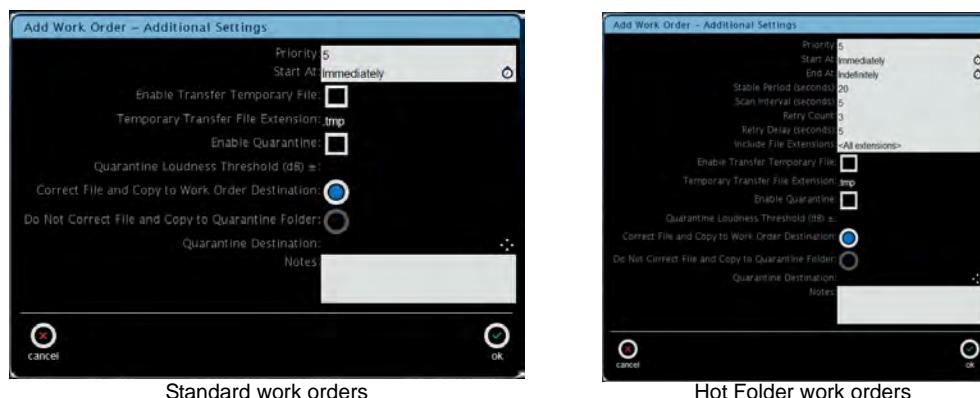
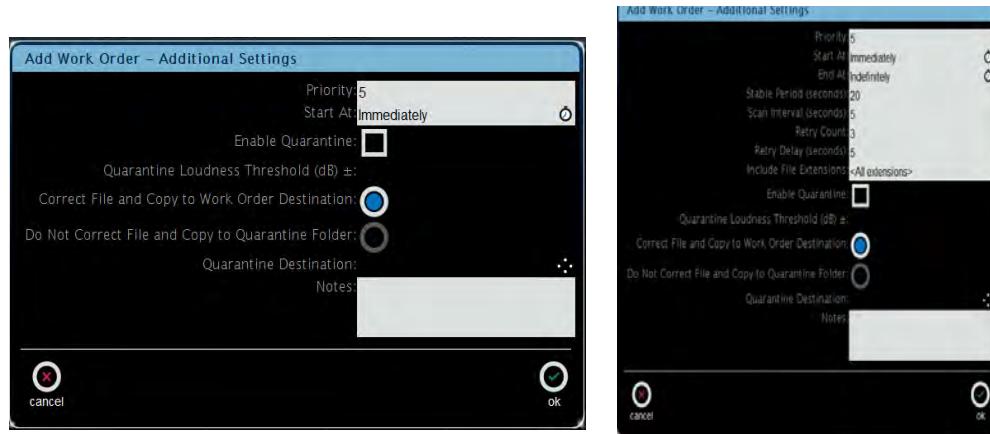


Figure 2-44 Additional Settings (Standard and Hot Folder Work Orders)



Pinnacle Standard and Omneon Standard work orders

Pinnacle, Omneon, Grass Valley, Mono-Only Hot Folders, Multifile Standard and Mono-Only Standard work orders

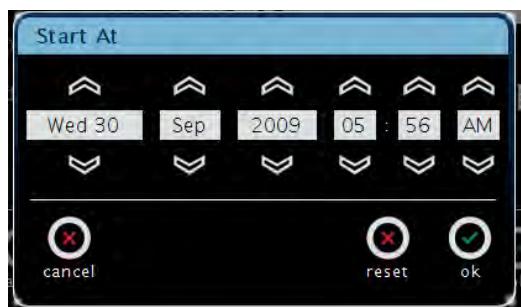
Figure 2-45 Additional Settings (Pinnacle, Omneon, Grass Valley, and Mono-Only Hot Folders, as well as Mono-Only Standard and Multifile Work Orders)

11. Enter the **Priority** for your work order by typing a numeric value.

If you want the system to process a work order first in the queue, enter 1. For numerous work orders with the same priority, the system sets the queue using the **Start At** entries, as explained in step 12.

12. If you want to start your work order immediately, use the default (**Immediately**) in the **Start At** field. If you want to specify a start time for your work order, click on the **Start At** field.

The **Start At** screen is displayed, as shown in [Figure 2-46](#).

**Figure 2-46** Entering the Work Order Start Time

13. Use the up and down arrows to specify a day, month, year, and time when you want to start (run) the work order, then click **ok**. Click **reset** to return to the default (**Immediately**).
14. For **Hot Folder**, **Multifile Standard**, **Mono-Only Standard**, **Pinnacle Hot Folder**, **Omneon Hot Folder**, **Grass Valley Hot Folder**, and **Mono-Only Hot Folder** work orders, if you want to run your work order indefinitely, use the default (**Indefinitely**) in the **End At** field. If you want to specify a time when the DP600 stops looking for multiple files to process, click the **End At** field to display the **End At** screen (see [Figure 2-47](#)).
15. Use the up and down arrows to specify a day, month, year, and time when you want to end the multiple file work order, then click **ok**. Click **reset** to return to the default (**Indefinitely**).



Figure 2-47 Entering the Work Order End Time (For Work Orders with Multiple Files Only)

Following is a description of the other **Additional Settings**:

- **Stable Period**
Allows you to fine-tune the hot folder/work order activation process for your specific network environment. This applies to configurations where the system copies files from one server into a hot folder that the DP600 is monitoring on another server. This is typical in workflow environments that process an extremely large number of files. In this type of workflow, some remote file systems cannot confirm to any degree of accuracy when a file is completely copied from its source into a hot folder.
By utilizing the **Stable Period** parameter, the DP600 periodically checks the size of all new files in the hot folder, and waits until the file size stabilizes (does not increase in size). If the file size remains the same for the number of seconds you enter in the **Stable Period** field, then the DP600 activates the work order process on the respective files. The default is **20** seconds. This is a safeguard to ensure that the system does not begin processing files before they are completely copied into the designated hot folder.
- **Scan Interval**
Specifies how often the DP600 scans a hot folder for new files to process. The default is **5** seconds.
- **Retry Count**
Specifies how many times the system tries to process a hot folder work order before the work order fails. The default is **3**.
- **Retry Delay**
Specifies how many seconds the system waits before retrying to process a hot folder work order. The default is **5** seconds.
- **Include File Extensions**
Specifies whether to add files to the hot folder that include **All extensions** (the default) or only those files that contain the extensions you enter in this field.
- **Enable Transfer Temp File**
When you specify a **Standard** or **Hot Folder** work order, the system outputs a temporary file (with the specified extension). This prevents other automated systems from accessing DP600 source files until the files are written to the destination folder. Once a file is written, the extension is dropped and the file is saved with its proper name.
Temp Transfer File Extension
If you click in this field, you can enter the desired temporary file extension for your work order. The system uses the same temporary file extension for all destinations (primary, secondary, and quarantine).

- **Enable Quarantine** (not applicable for mono-only work orders)
Enables the quarantine options. Click this box to display the **Quarantine Loudness Threshold (dB)+/-** field, where you can enter a value that specifies the acceptable correction range. If the amount of loudness correction is equal to or greater than this range, select from the following two options:
Correct file and copy to work order destination copies the corrected file to the work order destination directory. Corrected files are displayed as **Quarantine Finished** in the status area in work order report and log screens.
Do not correct file and copy to quarantine folder displays the **Quarantine Destination** field. If you click in this field, the **Enter Path** screen is displayed where you can enter a directory where the system copies an uncorrected file. This screen is identical to the **Enter Path** screen described earlier for the source path. Uncorrected files are displayed as **Quarantine Failed** in the status area in work order report and log screens.
- **Notes**
Allows you to enter any related text for the corresponding work order.



Note: If you enable **Do not correct file and copy to quarantine folder** in the **Add Work Order** screen (see [Figure 2-39](#) and [Figure 2-40](#)), the **Quarantine Destination** field is displayed. When you click in this field, you can move (instead of copy) the corrected or uncorrected files to the specified work order directory or the quarantine directory.

16. If applicable, enter any other **Additional Settings** for the respective hot folder.

After you add a work order, it runs as specified in the **Add Work Order** menu. When a work order is running, the **home** screen displays the progress, as shown in [Figure 2-48](#).

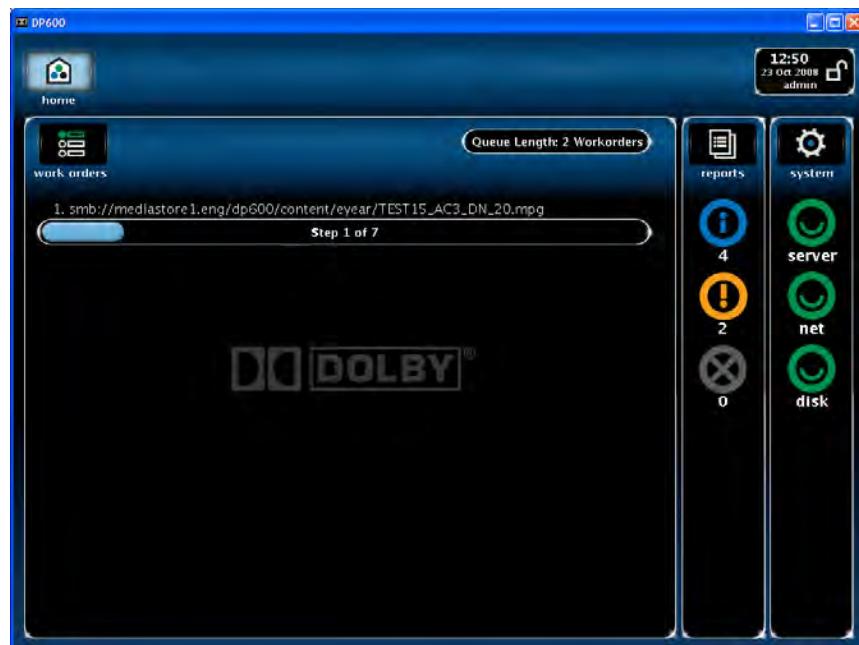


Figure 2-48 Work Order Running as Displayed in Home Screen

After you add a work order, it is displayed in the **work orders** screen (when you select **work orders** in the **home** screen). In this screen, the work order database displays the names, profiles, creation dates, status, scheduled start times, and source files for all work orders, as shown in [Figure 2-49](#). For hot folder work orders, a folder icon is displayed on the left side of each entry. To reverse the list from beginning to end (or end to beginning), click the top of any column.

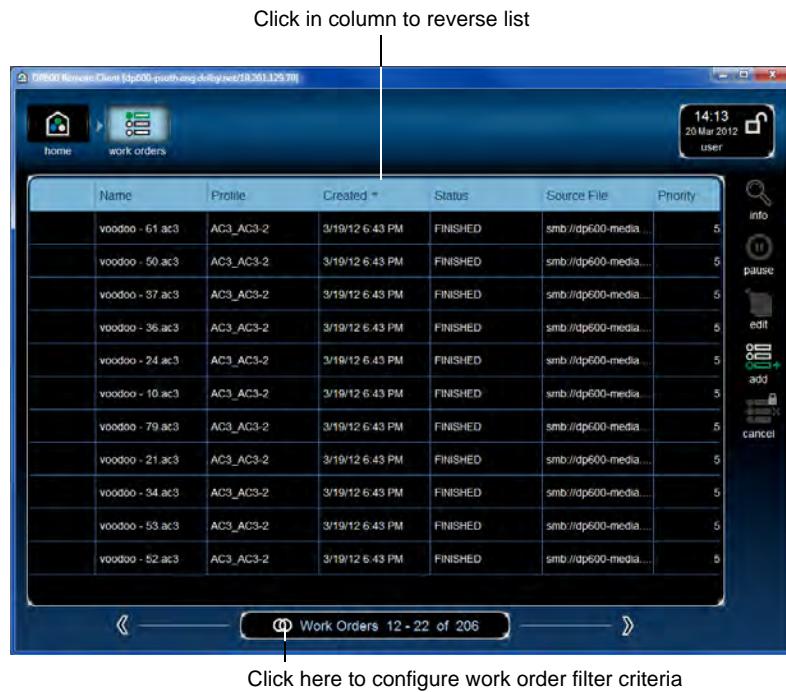


Figure 2-49 Work Orders Screen Displays Database

When you click the filter criteria icon  at the bottom of the **work orders** screen (shown in [Figure 2-49](#)), the **Work Order Filter Criteria** options are displayed, as shown in [Figure 2-50](#).



Figure 2-50 Work Order Filter Criteria Screen



Note: For the **Include Status** criteria, **QUARANTINE_FINISHED** is for corrected files and **QUARANTINE_FAILED** is for uncorrected files.

When you configure the filter criteria, you can modify the default information displayed in the **work orders** screen. When you change the defaults, the white filter criteria icon is displayed in color  and the system displays only the filtered data in the **work orders** screen. When you click **reset**, the filter criteria return to the defaults and the icon is displayed in white. Following is a description of each filter criteria option.

Name Contains

This option specifies that the **info** screen displays only work orders that include the keywords you enter in this field. The default is **Include All**, which specifies that all work orders are displayed.

Profile

This option specifies that the **info** screen displays only work orders that use the selected profile. When you click in this field, the **Select Profile** screen is displayed, as shown in [Figure 2-42](#). In this field, you can select the desired profile. The default is **Include All**, which specifies that work orders using any profile are displayed.

Date Created

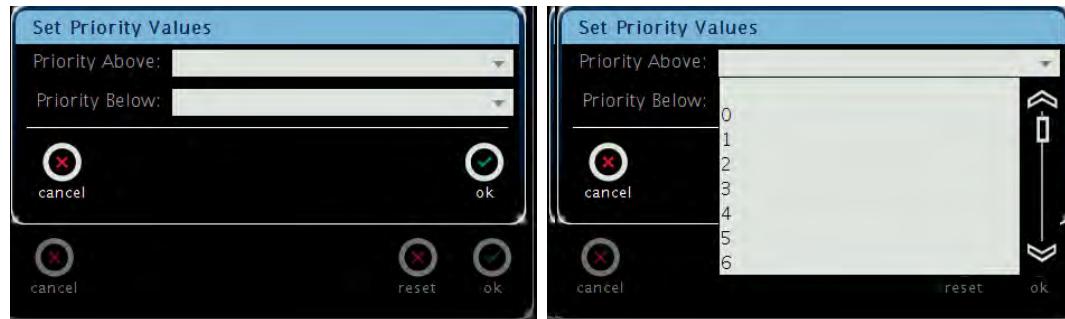
This option specifies that the **info** screen displays only work orders run during a certain period. When you click in this field, you can select the desired option from the drop-down menu. The default is **All**, which specifies that all work orders are displayed. If you select **Custom All Dates**, the **Set Date Created Values** is displayed. When you click in the **Created Since** or **Created Until** fields, you can enter an exact after or before date and time using the displayed controls. The default is **Include All**, which specifies that all work orders are displayed. [Figure 2-51](#) shows all the options.



Figure 2-51 Date Created Options

Priority

This option specifies that the **info** screen displays only work orders with a priority above or below a certain number. When you click in the **Priority Above** or **Priority Below** fields, you can select the desired priority from a drop-down menu, as shown in [Figure 2-52](#). The default is **Include All**, which specifies that work orders with any priority are displayed.



[Figure 2-52](#) Set Priority Values

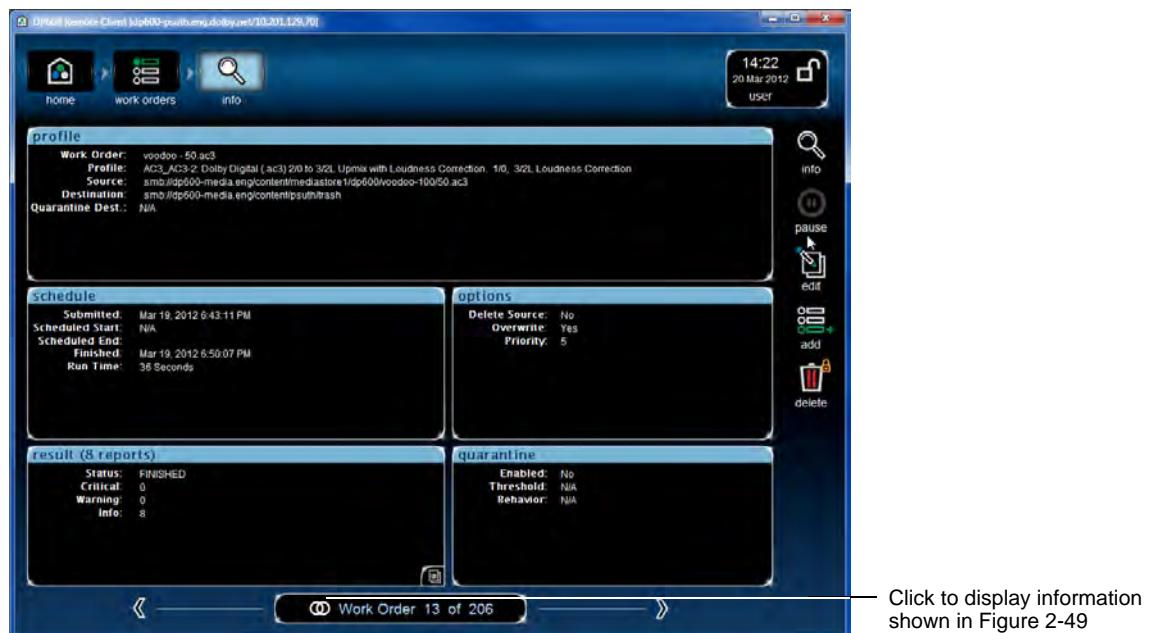
Include Status

When you check or uncheck these boxes, the system filters the status information accordingly.

In addition to adding work orders and displaying work order information, the **work orders** screen displays other icons, which enable you to display more information, as well as pause, edit, cancel, and delete a selected work order. Following is a description of each of these icons:



When you select a work order in the database, and then press or click the **info** icon, profile, schedule, and reports information is displayed in the **info** screen, as shown in [Figure 2-53](#).



[Figure 2-53](#) Work Orders Info Screen

In addition, if you press or click the **reports** icon in the **info** screen, the corresponding report information is displayed for the selected work order, as shown in [Figure 2-54](#). This screen displays the following information for each work order:

- Date
- Severity
- Description
- Name of work order

Dolby Remote Client [dp600-psutheng.dolby.net/10.201.129.70]

14:28 20 Mar 2012 user

info

0

0

0

export

Reports 1 - 8 of 8

Date	Severity	Description	Work Order
3/19/12 6:50 PM	INFO	Work Order Summary	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Dolby Digital Encoder Log (ingestFile)	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Loudness Correction Log (ingestFile)	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Estimated Levels Log (ingestFile)	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Loudness Estimation Log (ingestFile)	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Broadcast Upmixer Log (ingestFile)	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Dolby Digital Decode Log (ingestFile)	voodoo - 50 ac3
3/19/12 6:49 PM	INFO	Dolby Digital Info Log (ingestFile)	voodoo - 50 ac3

Figure 2-54 Info Reports Screen

On the right side of the **info reports** screen, five icons are displayed. When you click any of these icons, the screen responds accordingly. Following is a description of each of these icons.



When you press or click on a work order report to select it, and then press or click this icon, the corresponding detailed report is displayed in the **reports info** screen, as shown in [Figure 2-55](#).

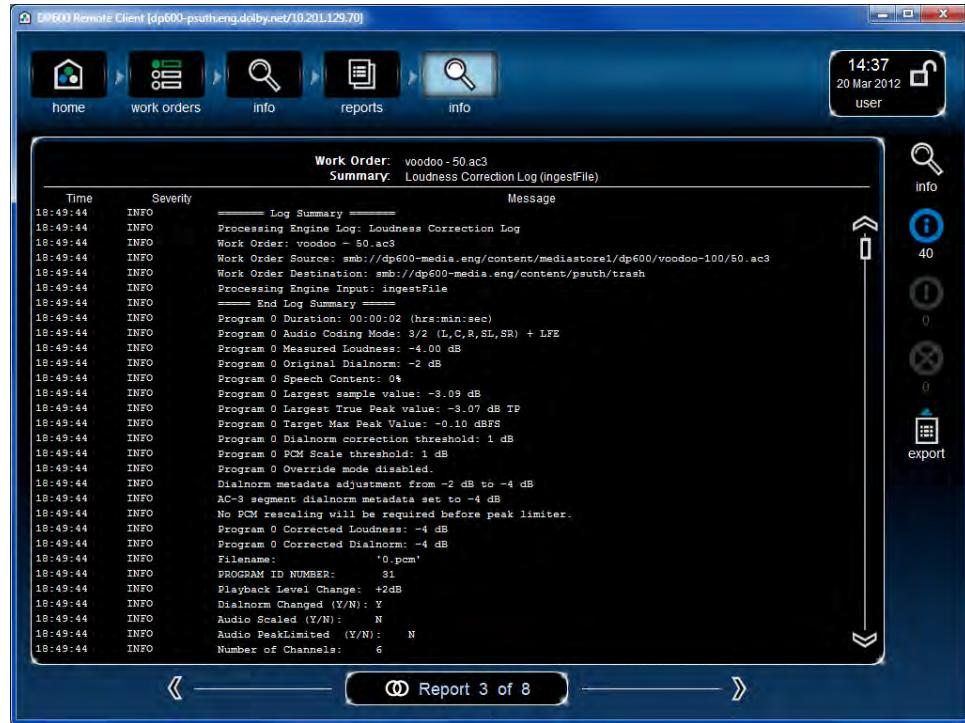


Figure 2-55 Detailed Report Displayed in Reports Info Screen

When you press or click any of the lower four icons, only work order reports associated with that icon are displayed. When you press or click again on the same icon, this type of report no longer is displayed. If you click more than one icon, the respective reports are displayed, corresponding to all the selected icons. Following is a description of each of these icons.



Selecting this icon displays any work order reports that contain information, but no warnings or errors.



Selecting this icon displays any work order reports that contain warnings.



Selecting this icon displays any work order reports that contain errors.



When you click on a work order report, and then click this icon (displayed only in the DP600 client), the system saves a text file of the report to the desired location on your PC. A confirmation dialog box is displayed where you enter the desired name and path, and then click **ok**, as shown in [Figure 2-56](#)



Figure 2-56 Export Report Confirmation



When a work order is running and you press or click this icon, the work order pauses. To resume processing, click or press this icon again.



When you select a work order in the database, and then press or click this icon, the **Edit Selected Work Order** screen is displayed, as shown in [Figure 2-57](#). In this screen, you can edit your work order settings. After making the desired changes, you can either select **update** to update the current work order or select **create new** to create a new work order. If you create a new work order, we recommend entering a new name to differentiate it from the original work order. The new work order now is displayed in the work order database.

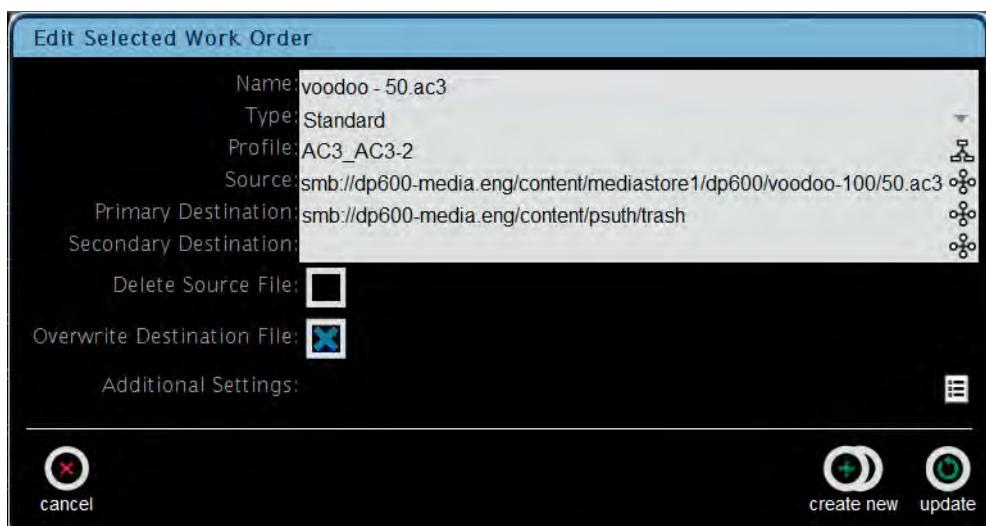


Figure 2-57 Edit Selected Work Order Screen



When you click this icon, the **Add Work Order** screen is displayed, as shown in [Figure 2-39](#). In this menu, you can set up your work orders, as described in [Creating a Work Order](#). One of these icons is displayed, depending on the state of the selected work order. If the selected work order is running or scheduled, the **cancel** icon is displayed and you can press or click this icon to cancel the selected work order. If the selected work order is not scheduled or running, the **delete** icon is displayed, and you can delete the work order from the database. In either case, a prompt is displayed, which asks you to confirm your action (cancel or delete). Select **ok** or **cancel** at the confirmation prompt.

Displaying Work Order Reports from the Home Screen

In addition to displaying work order reports from the work order database, you can also access reports from the **home** screen.

To access a report from the **home** screen:

1. Press or click the **reports** icon in the **home** screen, as shown in [Figure 2-58](#).

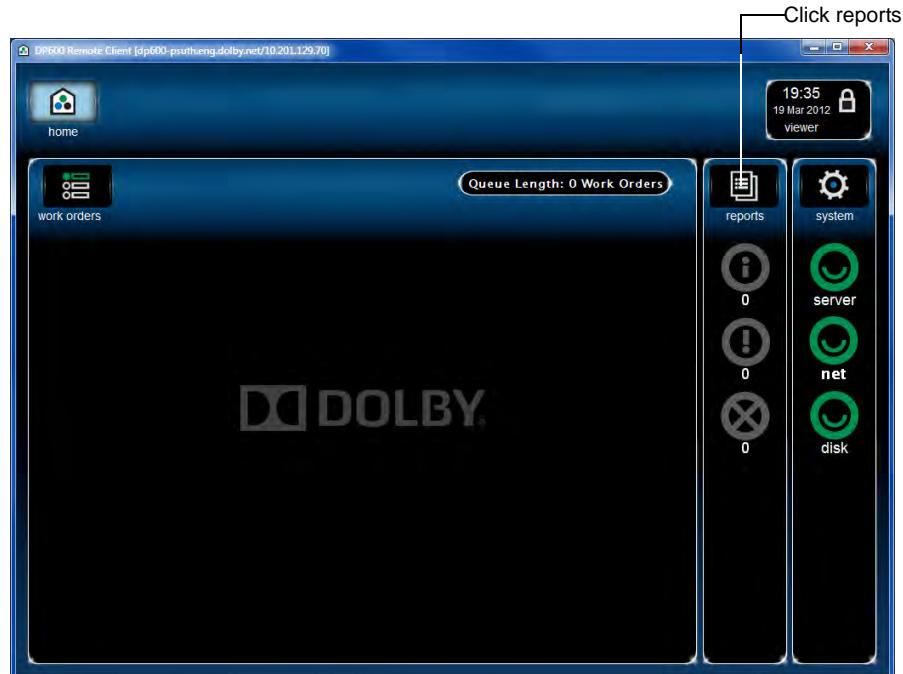


Figure 2-58 Click Reports in Home Screen

The home **reports** screen is displayed, as shown in [Figure 2-59](#).

Date	Severity	Description	Work Order
3/19/12 6:51 PM	INFO	Work Order Summary	voodoo - 39.ac3
3/19/12 6:51 PM	INFO	Dolby Digital Encoder Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Work Order Summary	voodoo - 18.ac3
3/19/12 6:51 PM	INFO	Dolby Digital Encoder Log (ingestFile) voodoo - 18.ac3	
3/19/12 6:51 PM	INFO	Loudness Correction Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Estimated Levels Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Loudness Estimation Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Broadcast Upmixer Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Dolby Digital Decode Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Dolby Digital Info Log (ingestFile) voodoo - 39.ac3	
3/19/12 6:51 PM	INFO	Loudness Correction Log (ingestFile) voodoo - 18.ac3	

Figure 2-59 Click Info in Home Reports Screen

2. Press or click the desired work order report, then click **info**.

The respective work order report is displayed, as shown in [Figure 2-60](#).

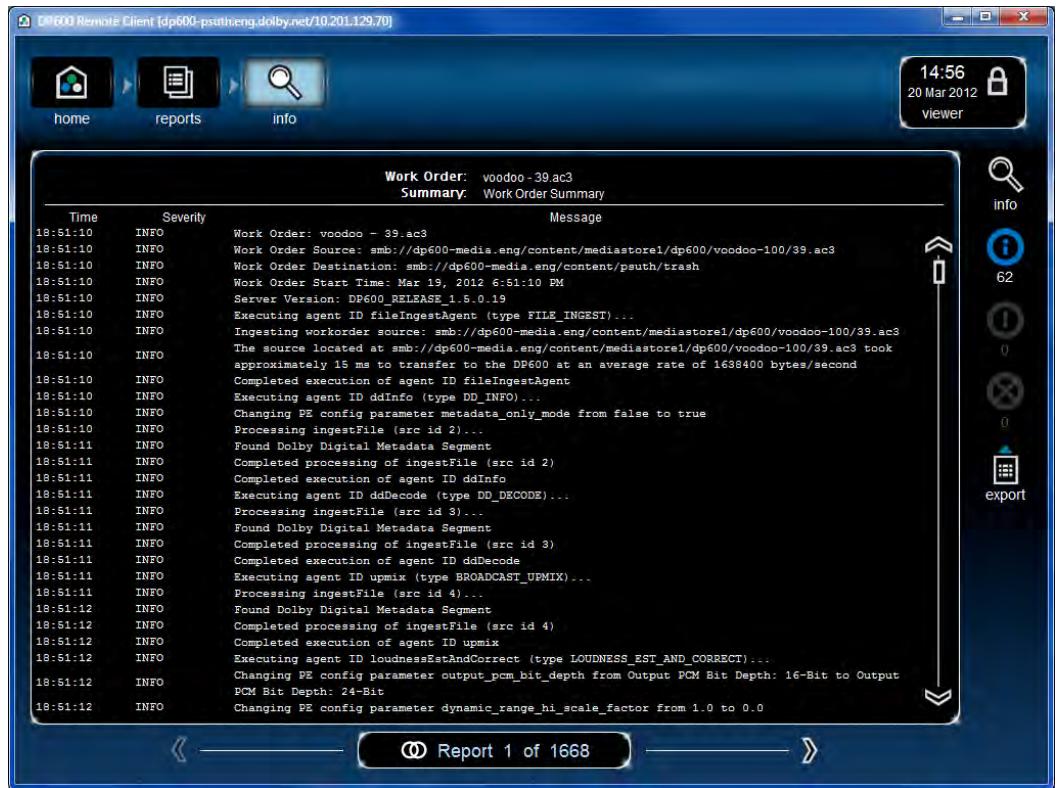


Figure 2-60 Display Report in Home Reports Info Screen

System Maintenance

This chapter explains how to maintain the Dolby® DP600. The sections that follow show you how to diagnose and repair hard drives and power supplies.

3.1 Maintaining the DP600 Hard Drives

The DP600 has five physical internal hard drives. Drives 1 and 2 are arranged in a RAID 1 configuration to provide protection for the operating system as well as local storage. The remaining three hard drives are configured as separate drives to provide local storage. This configuration of one RAID pair and three separate drives represents four logical drives. There are four bicolor LEDs on the front panel, labeled **1**, **2**, **3**, and **4**. These LEDs indicate the status of the DP600's four logical internal hard drives. The drive LEDs function as follows:

- Off (nonilluminated): Indicates a functional drive with no current disk access activity
- Green: Indicates normal drive activity
- Red: Indicates a drive failure

LED **1** shows the status of the two-drive RAID 1 configuration. The operating system is installed on these mirrored drives to prevent an inoperable system due to the physical failure of a single drive. If either of the mirrored drives fails, the other RAID drive enables the system to operate normally until the failed drive is replaced.

LEDs **2**, **3**, and **4** indicate the status of the other three physical disks. These disks are configured as separate drives and do not have RAID backup capability. If any of these drives fail, the failed drives must be replaced, and any work orders in progress during the failure must be restarted.

If one of the drive LEDs turns red, refer to [Table 3-1](#) to determine which physical drive failed. The DP600 automatically rebuilds replacement drives and automatically rebuilds the RAID array when one of the RAID drives has a problem or is replaced (with the power on). During the RAID rebuild process, LED 1 blinks in red in half-second intervals. When the rebuild process is complete, LED 1 stops blinking.

If you replace both RAID drives, or if your unit is running software version 1.5 or earlier and you replace a non-RAID drive, you also need to reinstall the DP600 software. In such a case, follow the instructions in [Upgrading or Installing the DP600 Software](#) for a clean installation. Be sure to back up your custom profiles and take screen shots of your hot folder work orders before reinstalling the software. When you replace both RAID drives and reinstall the software, the system automatically synchronizes the two RAID drives, re-creating the original mirrored RAID array.

To replace a drive, follow the instructions in [Replacing a Drive](#).

[Table 3-1](#) shows the LED conditions that specify the failed drive.

Table 3-1 Local Storage LED Conditions

Front-Panel LED	Condition	Failed Physical Drive
1	Solid red	1
1	Blinks in red in two-second intervals	2
1	Blinks in red in half-second intervals	Rebuilding RAID
2	Solid red	3
3	Solid red	4
4	Solid red	5

3.1.1 Replacing a Drive

To replace a DP600 hard drive:

1. Look at the front-panel drive LEDs, then refer to [Table 3-1](#) to determine which drive has failed.



Figure 3-1 Red LED Indicates Failed Disk Drive

2. Swing the touch-screen panel out to the left.



Figure 3-2 Swing Out Touch-Screen Panel

3. Locate the small pry areas on the left side of the front-panel drive cover.



Figure 3-3 Locate Pry Areas Behind Drive Cover

4. Using your fingers or a cushioned screwdriver, gently pry off the drive cover from its left side (the other side is a slotted lock), and remove it from the unit.
Be careful not to drop it, as the panel is deceptively heavy and will come off suddenly once the locking mechanism disengages.



Figure 3-4 Remove the DP600 Drive Cover

5. Use a Phillips screwdriver to loosen the four screws that secure the drive retaining bracket, then slide the screws toward the center of the bracket, and remove the bracket as shown in [Figure 3-5](#).

As viewed left to right, the first two screws move to the right and the second two screws move to the left.



Caution: When loosening the screws, be sure not to remove them completely from the bracket.

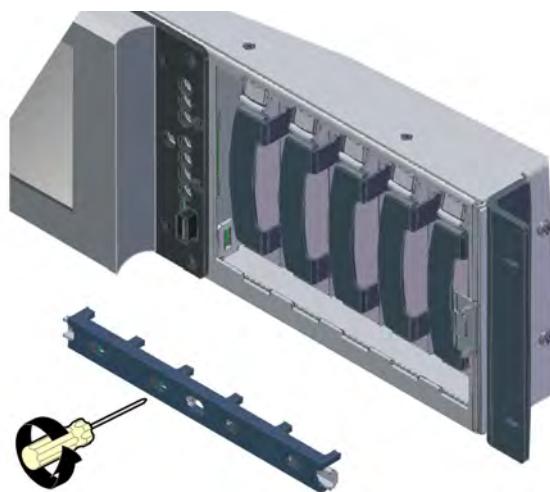


Figure 3-5 Remove the Drive Retaining Bracket

Starting from the left side of the drive cage, the first slot contains physical drive 1 (RAID drive 1). The second slot contains physical drive 2 (RAID drive 2). Starting with the third slot, physical drives 3, 4, and 5 are installed next, in that order. In this example, RAID drive 1 is the failed drive that requires replacement. [Figure 3-6](#) shows how the drives are numbered from left to right. (The numbers are not displayed on the actual unit.)

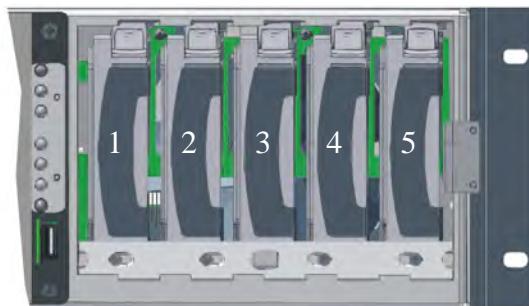


Figure 3-6 Physical Drive Numbers

6. Match the failed drive number (determined in step 1) with the corresponding physical drive, then grasp the drive finger tab and slide it out of its slot, as shown in [Figure 3-7](#).

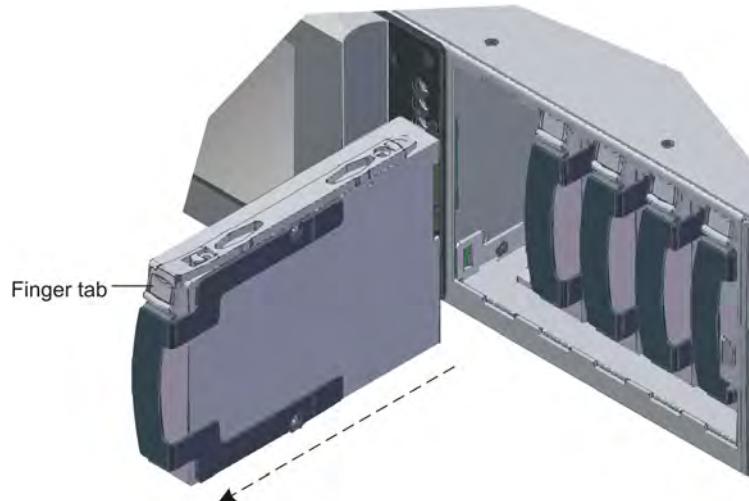


Figure 3-7 Remove Failed Drive from DP600

7. Be sure that no work order is running, then grasp the replacement drive finger tab, and firmly but gently slide the drive into its slot (see [Figure 3-8](#)) until you feel resistance, which indicates that the drive is seated in its socket.
You can replace a drive with a higher capacity unit but not with a lower capacity unit. Be sure to use a new or reformatted drive.

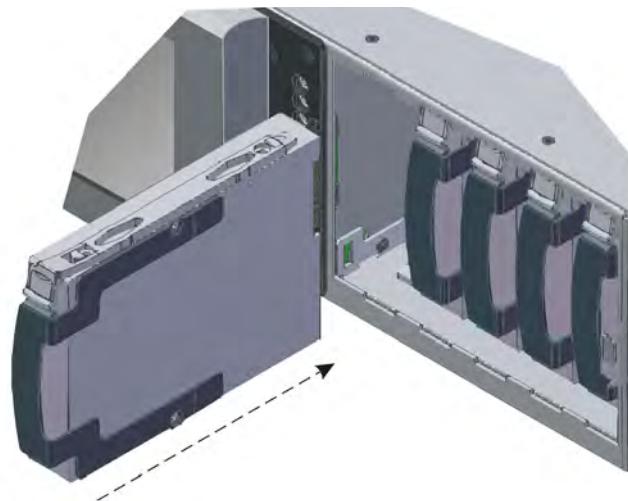


Figure 3-8 Insert Replacement Drive in DP600

8. Position the retaining bracket in front of the hard drives, lining it up with the screw holes, and slide the screws outward to their original position. Next, use a Phillips screwdriver to tighten the four screws and secure the drives, as shown in [Figure 3-9](#).

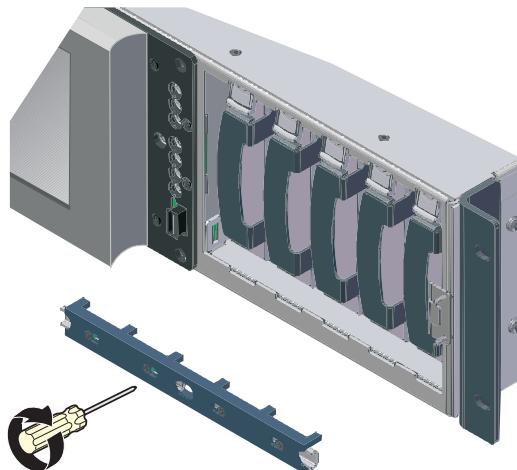


Figure 3-9 Reinstall Retaining Bracket

9. Reinstall the drive cover by positioning it so that the mounting tang on the right side of the RAID bay inserts in the mounting slot on the rear of the drive cover. To do this, hold the drive cover so that there is an approximately 10-degree angle between the cover and the front of the unit, as shown in [Figure 3-10](#).



Figure 3-10 Reinstall Front-Panel Drive Cover

10. Slide the drive cover over the mounting tang, and move it to the left until the mounting stud on the left rear side of the cover engages the hole in the front of the unit.

The drive rebuilds automatically.

If you replaced one RAID drive, the RAID array rebuilds automatically.

If you replace both RAID drives, or if your unit is running software version 1.5 or earlier and you replace a non-RAID drive, you also need to reinstall the DP600 software. In such a case, follow the instructions in [Upgrading or Installing the DP600 Software](#) for a clean installation. Be sure to back up your custom profiles and take screen shots of your hot folder work orders before reinstalling the software. When you replace both RAID drives and reinstall the software, the system automatically synchronizes the two RAID drives, re-creating the original mirrored RAID array.

3.2 Replacing a DP600 Power Supply

The DP600 requires only one power supply; a second unit is provided for backup. If a problem occurs with either of these power supplies, the power failure indicator LED on the front panel flashes red (see [Figure 3-11](#)) and a warning alarm sounds. The Dolby catalog number for each of your DP600 power supplies is identified by a label affixed to the right side of each unit.

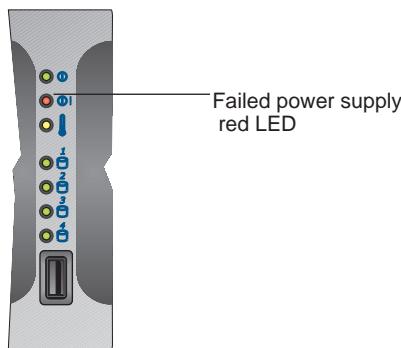


Figure 3-11 DP600 Front-Panel Power Supply Indicator

To replace a DP600 power supply:

1. Identify the failed unit in the rear panel by its nonilluminated LED, as shown in [Figure 3-12](#).



Figure 3-12 DP600 Failed Power Supply (Top Unit in Figure)

2. Press the red **Power Supply Alarm Reset** button to turn off the warning alarm, then disconnect the power cable on the failed power supply and loosen the unit thumbscrew by turning it counterclockwise, as shown in [Figure 3-13](#).



Figure 3-13 Loosen Thumbscrew on Failed Power Supply

3. Press the failed power supply tab to the left while grasping its handle and pulling the unit out of its slot (see [Figure 3-14](#) and [Figure 3-15](#)).

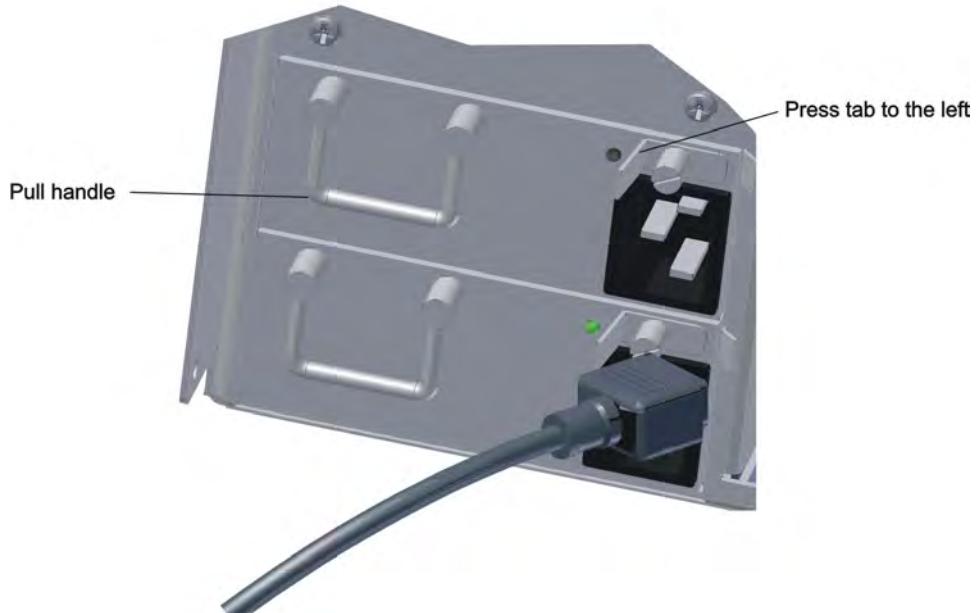


Figure 3-14 Press on Tab and Pull Handle to Remove Failed Power Supply

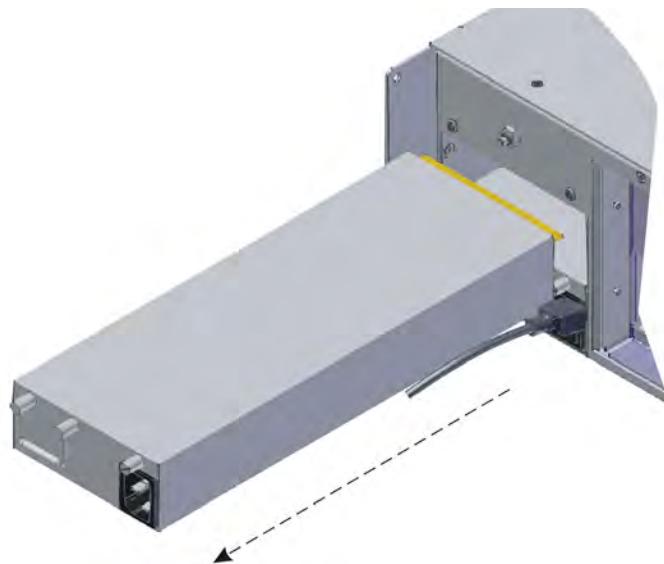


Figure 3-15 Remove Failed Power Supply

4. Position the replacement unit squarely within its slot and push it along the guiding surface until it snaps into place, as shown in [Figure 3-16](#).

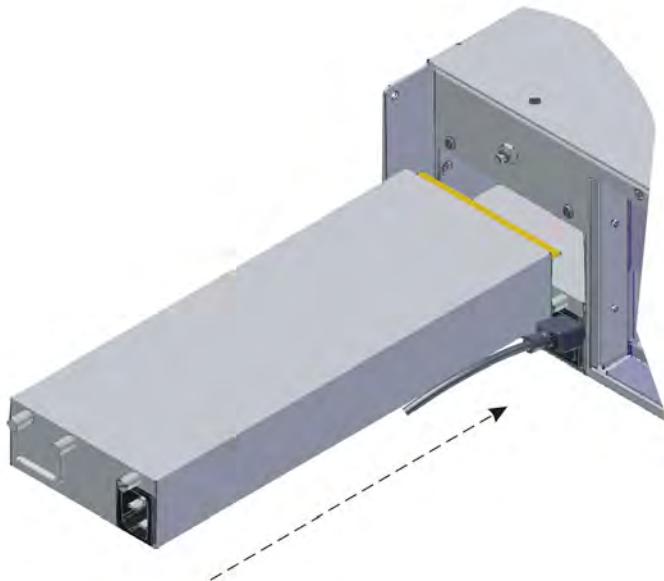


Figure 3-16 Install New Power Supply

5. Tighten the thumbscrew by turning it clockwise, and reconnect power, as shown in [Figure 3-17](#).

The replacement unit LED turns green and the front-panel red LED turns off, verifying that the new unit is functioning correctly.

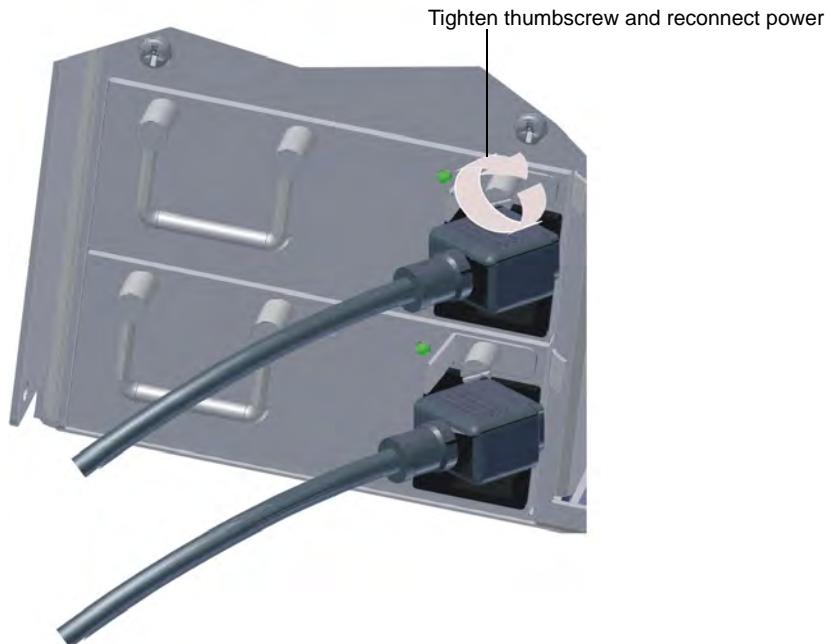


Figure 3-17 New Power Supply Installed and AC Cable Reconnected

3.3 Upgrading or Installing the DP600 Software

The DP600 software upgrades are available from Dolby Support. Using the materials provided by Dolby Support, you can perform a clean installation or an upgrade of the DP600 software (if required). A clean installation restores the DP600 to the factory settings, deleting all your network settings, custom profiles, work orders and reports, bookmarks, and user login information. An upgrade allows you to back up and restore all your files and settings.

To perform an upgrade or a clean installation of the DP600 software:

1. Be sure the provided keyboard is connected to one of the DP600 USB ports.
2. Insert the *DP600 Installation Software* DVD in the CD/DVD drive.
3. Shut down the system (see [Rebooting and Shutting Down the System](#)), disconnect power, wait 30 seconds, and then reconnect power.



Caution: Be sure to wait 30 seconds before reconnecting power.

A prompt asks whether you want to verify the software.

4. Press *v* to verify the installation software, or press any other key to continue with the upgrade installation.

The currently installed software version and the software version on the DVD are displayed.

5. Select one of the options presented with the following message:
Software upgrade possible. System configuration can be backed up.

1. **Upgrade and backup system to an external drive**
2. **Upgrade**
3. **Clean install and backup system to an external drive**
4. **Clean install**
- Q. **Quit**

Select an install option: [press 1-4 or 'q' to quit]

- To perform an upgrade and save to an external drive, see [Performing an External Backup](#)
- To perform a clean install, see [Performing a Clean Install](#).
- To perform an upgrade and save to an internal backup, see [Performing an Upgrade](#).

6. When the DP600 **Welcome!** screen displays after a clean install or upgrade, follow the procedures in [Starting the System for the First Time](#).

Performing an External Backup

To perform an external backup:

1. At the prompt, insert an external USB drive, and then press any key to continue, or press **<S>** to skip this backup step.
2. Connect the USB drive.

The system saves the backup, confirms that the external copy was successful, and then prompts you to remove the drive. The backup file is now on the drive, so you can use the file to restore your data to any DP600 running version 1.8.1 or later.

The system then proceeds with the upgrade or installation option you have selected.

Performing a Clean Install

After selecting a clean install, a prompt confirms your selection and warns you that user data will be removed from the system.

1. Press **c** to continue the install, or press any other key to quit.

The installation runs for a while. When the new software completely installs, a prompt asks you to press any key to eject the DVD, and then press **<Enter>** to reboot.



Caution: Make sure that the front panel is open before you eject the DVD.

2. After ejecting the DVD, press **<Enter>** to start the application. Then follow the instructions in [Starting the System for the First Time](#) to configure the system.

Performing an Upgrade

To perform an internal upgrade:

1. Select one of the upgrade options as shown in menu at the beginning of this section. When the new software completely installs, a prompt asks you to press any key to reboot, and to remove the DVD.



Caution: Make sure that the front panel is open before you eject the DVD.

2. Press any key to reboot and remove the installation disc from the CD/DVD drive. If the disc is still in the CD/DVD drive while rebooting, the installation sequence begins again.
3. After ejecting the DVD, press *Enter* to start the application.
4. Page through the screens to verify your settings, and then click **finish** to reboot. After rebooting, the DP600 **home** screen is displayed.

Calibrating the Touch Screen

Although the calibration of the touch screen occurs during the manufacturing process, you might need to recalibrate. If calibration is necessary, the calibration setup displays with a small target at one corner of the touch screen, as shown in [Figure 3-18](#).

If you see the target, perform the following steps within approximately 30 seconds. If you do not, the calibration setup is removed. If the calibration setup is not displayed, proceed directly to [Performing a Clean Install](#) or [Performing an Upgrade](#).

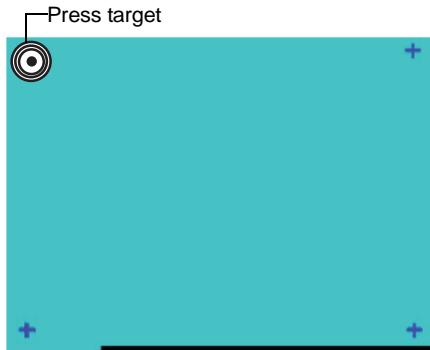


Figure 3-18 Calibration Setup Screen

To calibrate the touch screen:

1. Press the first target for a couple of seconds until it changes to a cross.
2. Press the next target until it changes to a cross.
3. Continue this procedure for the additional targets.

3.4 Backing Up and Restoring Data

The DP600 enables you to use the interface on the unit or from the remote client to back up the following data and settings to an external USB storage device:

- Network settings (DHCP/static, gateway, DNS, host name, and customer parameter settings)
- Time settings (Time zone and Network Time Protocol (NTP) settings)
- Custom profiles
- All hot-folder and standard work orders
- Bookmarks
- Automation jobs
- Licenses
- Users account

The DP600 also enables you to use the interface on the unit, the remote client, or the commissioning software to restore any data backup you created during a version 1.8.x.x upgrade. Backup files can come from any DP600 unit running version 1.8.x.x and later. For more information, see [Restoring Data and Settings](#).



Note: When a backup restore takes place in the interface, remote client, or commissioning software, if some of the data has the same name in the unit and in the backup, then the data in the unit is overwritten with the version from the backup.

3.4.1 Backing Up Data and Settings

You must insert a USB storage device in the DP600 front panel before you start.

To back up your data and settings:

1. Click **system** on the upper-right corner on the **home** screen. Then click **setup** in the middle of the **system** screen.

The **setup** menu is displayed on the screen, as shown in [Figure 3-19](#).



Figure 3-19 Setup Menu

2. Click **backup**.

The first of three **Create System Backup** screens is displayed, as shown in [Figure 3-20](#).



Figure 3-20 Create System Backup: Initial Screen

3. Click the highlighted arrow to access the second **Create System Backup** screen, as shown in [Figure 3-21](#).



Note: The DP600 must be idle before the backup occurs. During the backup process, the server locks the queue and blocks any requests for workorder submissions. The DP600 cancels any workorders that are currently running. If you do not want the workorders to cancel, manage them manually.



Figure 3-21 Create System Backup: Scan Drives Screen

4. Click **scan drives** to confirm access to the USB storage device.
The location of the USB storage device is displayed under the **scan drives** icon if it is available.
5. Click the highlighted arrow to access the third **Create System Backup** screen, as shown in [Figure 3-22](#).



Figure 3-22 Create System Backup Screen

6. Click **backup** to initiate the process. Upon completion, the **Backup complete** screen is displayed as shown in [Figure 3-23](#).



Figure 3-23 Backup Complete Screen

3.4.2 Restoring Data and Settings

You must insert a USB storage device in the DP600 front panel before you start.

To restore your data and settings:

1. Click **system** at the upper-right corner on the **home** screen.
The **system** screen is displayed.
2. Click **setup** (in the middle of the **system** screen).
The **setup** menu is displayed on the screen, as shown in [Figure 3-19](#).
3. Click **restore**.
The **Restore** screen is displayed, as shown in [Figure 3-24](#).

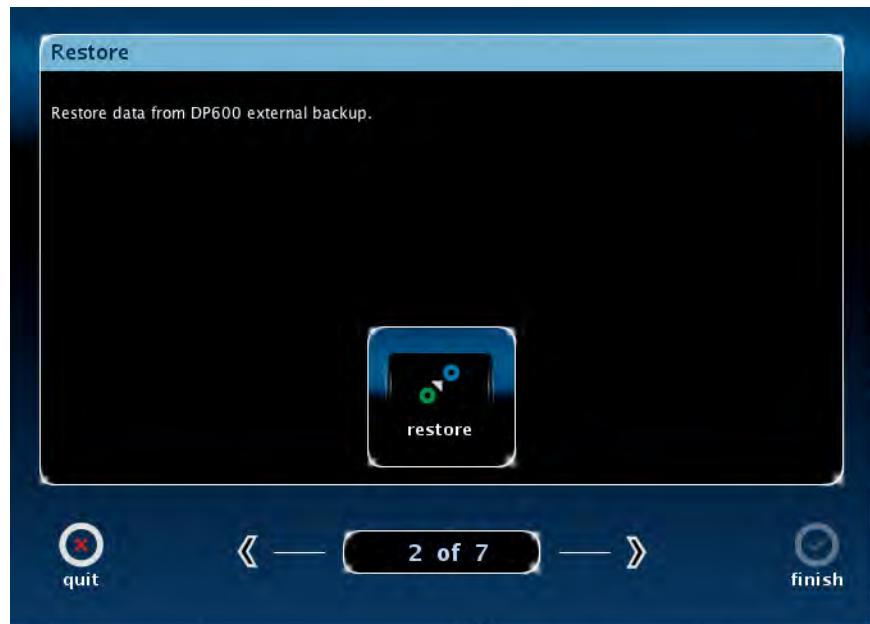


Figure 3-24 Restore Screen

4. Click **restore**.

The **Restore System Backup** screen is displayed, as shown in [Figure 3-25](#).

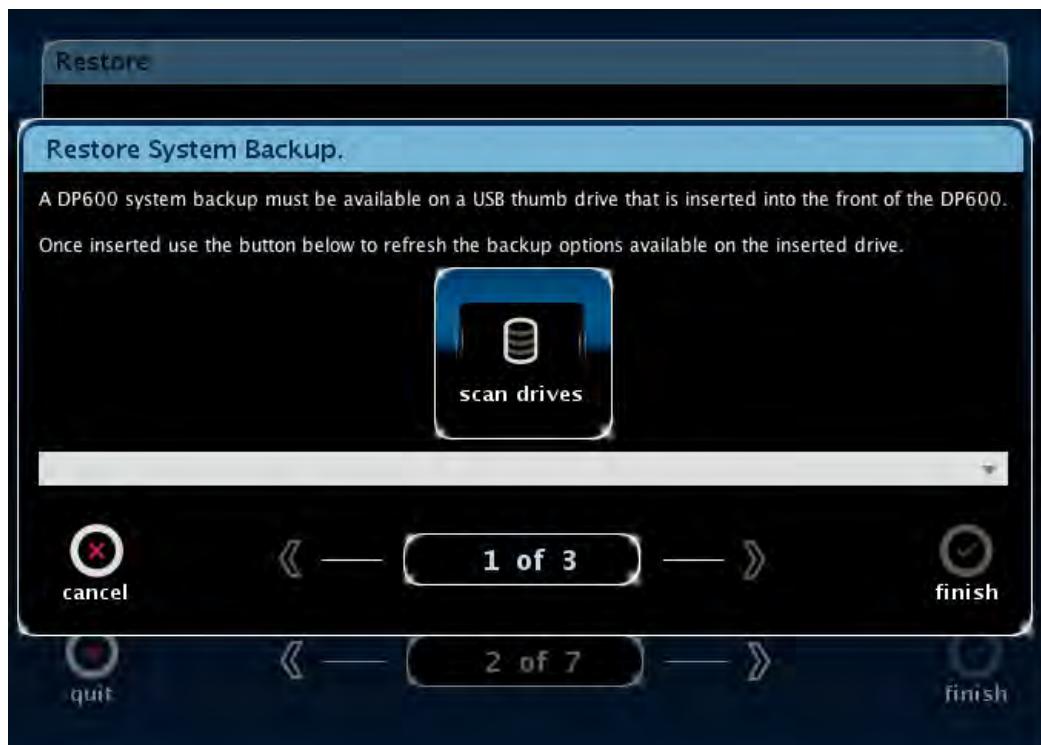


Figure 3-25 Restore System Backup Screen

5. Click **scan drives** to refresh the backup options on the USB storage device.

The location of the USB storage device is displayed under the **scan drives** icon if it is available.

6. Click the highlighted arrow to access the second **Restore System Backup** screen, as shown in [Figure 3-26](#), and then select the elements you want to restore.

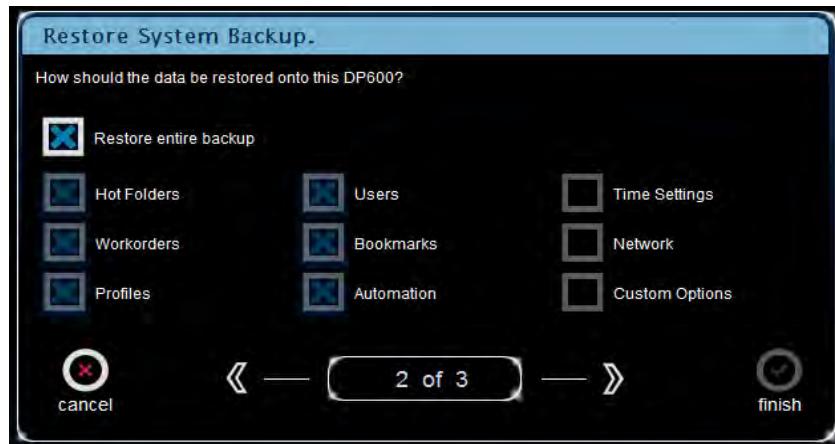


Figure 3-26 Restore Options Screen

7. Click the highlighted arrow to access the third **Restore System Backup** screen, as shown in [Figure 3-27](#).

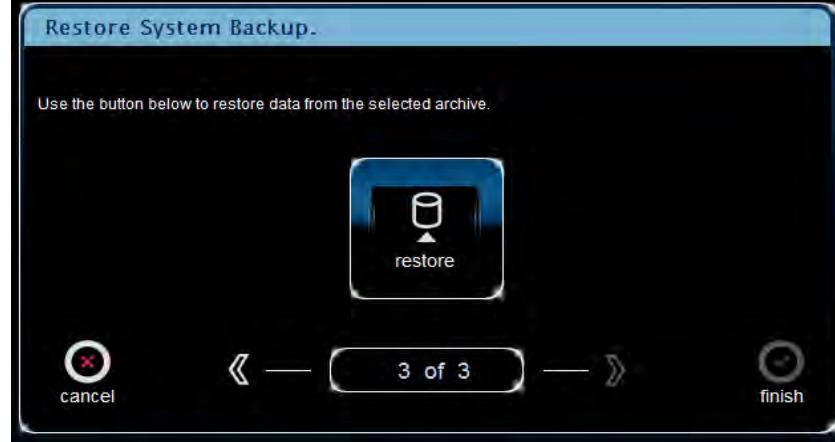


Figure 3-27 Restore System Backup Screen

8. Click **restore** to initiate the process. Upon completion, the **Restore complete** screen is displayed, as shown in [Figure 3-28](#).



Figure 3-28 Restore Complete Screen

3.5 Upgrading Licenses

If you have an **admin** ID and you need to upgrade your system for encoding, decoding, transcoding and conversion, or upmixing, see [Upgrading Your License](#).

3.6 Rebooting and Shutting Down

If you have an **admin** ID and you need to reboot or shut down the system, see [Rebooting and Shutting Down the System](#).

Setting Up a Shared Folder and Entering a Path

A.1 Setting Up a Shared Folder

For source and destination work order directories, you need to set up a shared folder for all authorized users. The following instructions provide a high-level example for creating a shared folder on a Microsoft® Windows® PC (with a static IP address) and testing the Dolby® DP600 client application:

1. Create a login account on the Windows PC named **dp600**.
2. Create a folder in the root of your hard drive named **dp600share**.
3. Copy content files into **dp600share**.
4. Right-click on the **dp600share** folder, then select **Sharing and Security**.
5. Select the **Share this folder** button.
6. Click the **Permissions** button.
7. Click the **Add** button.
8. Be sure the **Location** is the local computer.
9. Enter *dp600* in the text field.
10. Click the **Check Names** button to verify that the account exists on your system.
11. Click the **OK** button.
12. Be sure the permissions for the added user is set to **Full Control**.
13. Click the **OK** button.
14. Select the **Security** tab at the top of the window.
15. Click the **Add** button.
16. Be sure the **Location** is the local computer.
17. Enter *dp600* in the text field.
18. Click the **Check Names** button to verify that the account exists on your system.
19. Click the **OK** button.
20. Be sure permissions for the added user is set to **Full Control**.
21. Click the **OK** button.

The share should now be set up correctly.

A.2 Entering a Path

When you add a work order, you need to enter the **Source** path to the file or folder (for a hot folder) that you want to designate for processing. In addition, you need to enter the **Destination** path to the location where you want to save the processed files. You can enter **Source** and **Destination** paths using any of the following three methods:

- Entering a URL
- Browsing
- Selecting a bookmark

The following sections describe each of these methods.



Note: Supported file system protocols include FTP, SAMBA/CIFS, and SFTP.

A.3 Entering a Source Path

To enter a source path:

1. Select **home > work orders > add**.
The **Add Work Order** screen is displayed.
2. As an example, select a **Hot Folder** as the **Type**, as shown in [Figure A-1](#).

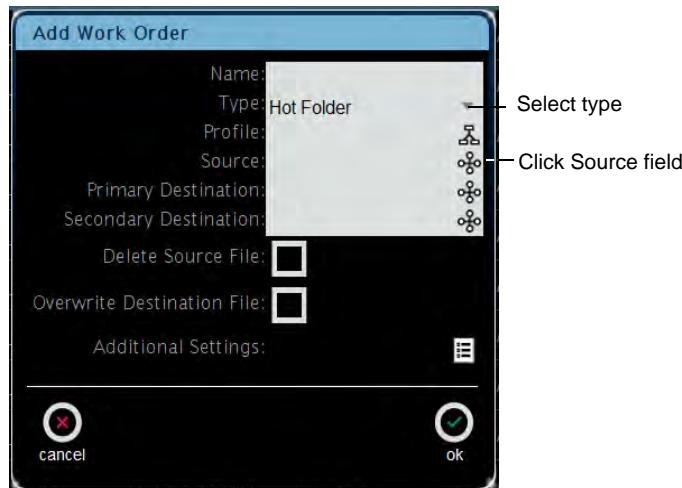


Figure A-1 Add Work Order Screen

3. Click on the **Source** field in the **Add Work Order** screen, as also shown in [Figure A-1](#).

The **Enter Path** screen is displayed, as shown in [Figure A-2](#). If you are setting up a multifile standard, mono-only standard, or mono-only hot folder, the **Enter Path** screen displays some additional data entry fields, as described in [Entering a Path for Work Orders with Multiple Files](#).

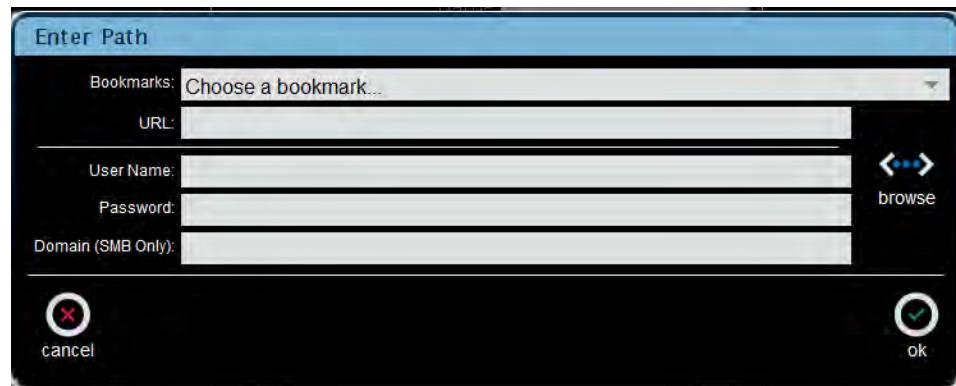


Figure A-2 Enter Path Screen

A.3.1 Entering a URL to Specify a Path

To enter a URL:

1. In the **Enter Path** screen, type the desired URL in the **URL** field. If required, you can enter a **User Name**, **Password**, and **Domain (SMB Only)**, in the corresponding fields, as shown in [Figure A-3](#).



Note: Supported file system protocols include FTP, SAMBA/CIFS, and SFTP.

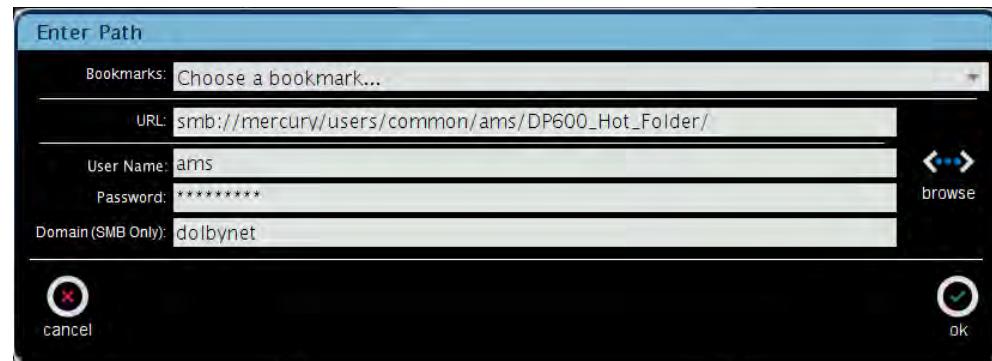


Figure A-3 Type URL in Enter Path Screen

2. After entering a URL, click **ok**.

Your URL is displayed in the **Source** field in the **Add Work Order** screen, as shown in [Figure A-4](#) (for a Windows share/SMB path).

If you click the **Delete Source File** box, the system deletes the source file after processing the work order. Click the **Overwrite Destination File** box if you want to save another file with the same name when the system processes the work order



Note: The **Additional Settings** for hot folders were previously described in [Chapter 2](#).

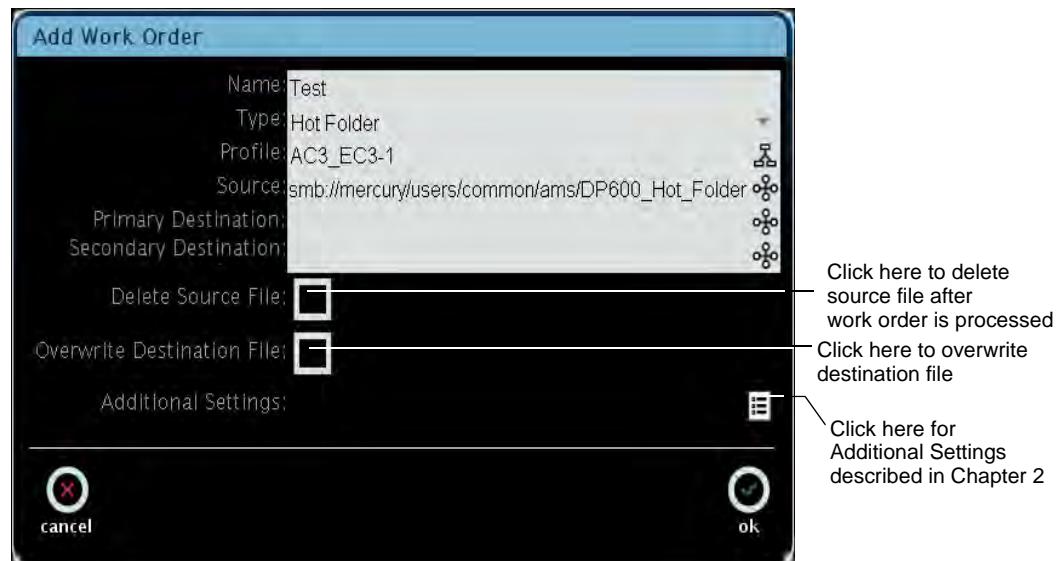


Figure A-4 URL Entered in Add Work Order Screen

A.3.2 Browsing to a Location to Specify a Path

To browse to a location:

1. Click **browse** in the **Enter Path** screen, as shown in [Figure A-5](#).



Note: You cannot browse on Grass Valley servers.



Figure A-5 Click Browse in the Enter Path Screen

The **Select Protocol** screen is displayed, as shown in [Figure A-6](#).

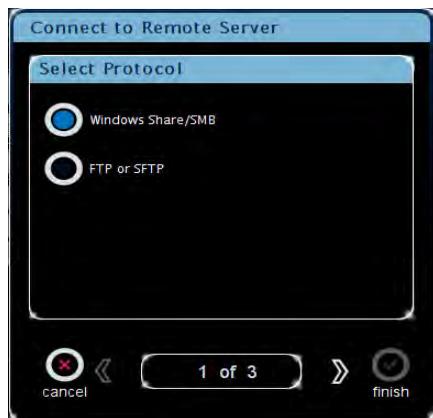


Figure A-6 Select Protocol Screen

2. Select either **Windows Share/SMB** or **FTP or SFTP**, then click the right arrow at the bottom of the screen.

The **Enter User Credentials** screen is displayed, as shown in [Figure A-7](#) (for a Windows share/SMB path).

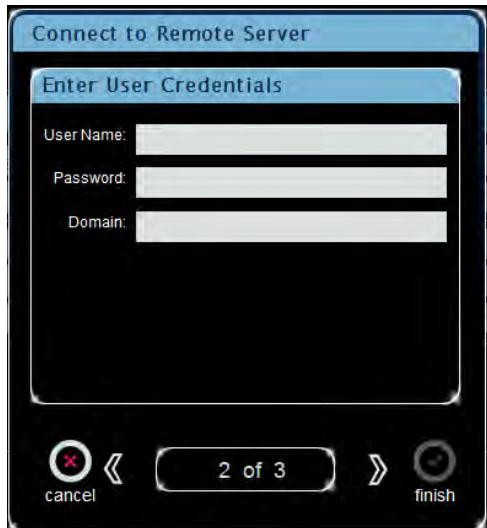


Figure A-7 Enter User Credentials Screen

3. Enter a **User Name**, **Password**, and **Domain (SMB Only)** in the **Enter User Credentials** screen, then click the right arrow at the bottom of the screen.
The **Enter Server Details** screen is displayed.
4. Enter a path in the **Enter Server Details** screen, as shown in [Figure A-8](#) (for a Windows share/SMB path), then click **finish**.

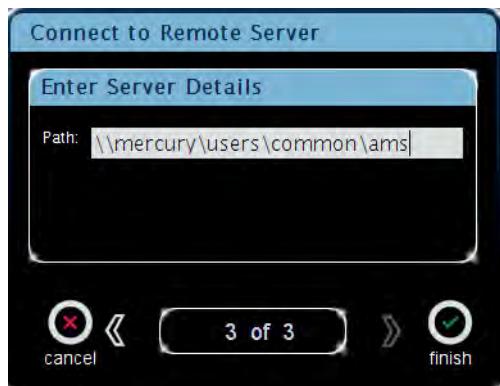


Figure A-8 Enter Server Details Screen

The **Select File** screen is displayed, as shown in [Figure A-9](#) (for a Windows Share/SMB path). In this screen, you can select the file or folder you want to specify as the path to your source files.

You can also bookmark a path by clicking **add bookmark**, remove an existing bookmark by clicking **remove bookmark**, move up one level in the file hierarchy by clicking **up directory**, refresh the displayed path by clicking **refresh**, and connect to another server by clicking **server connect**.

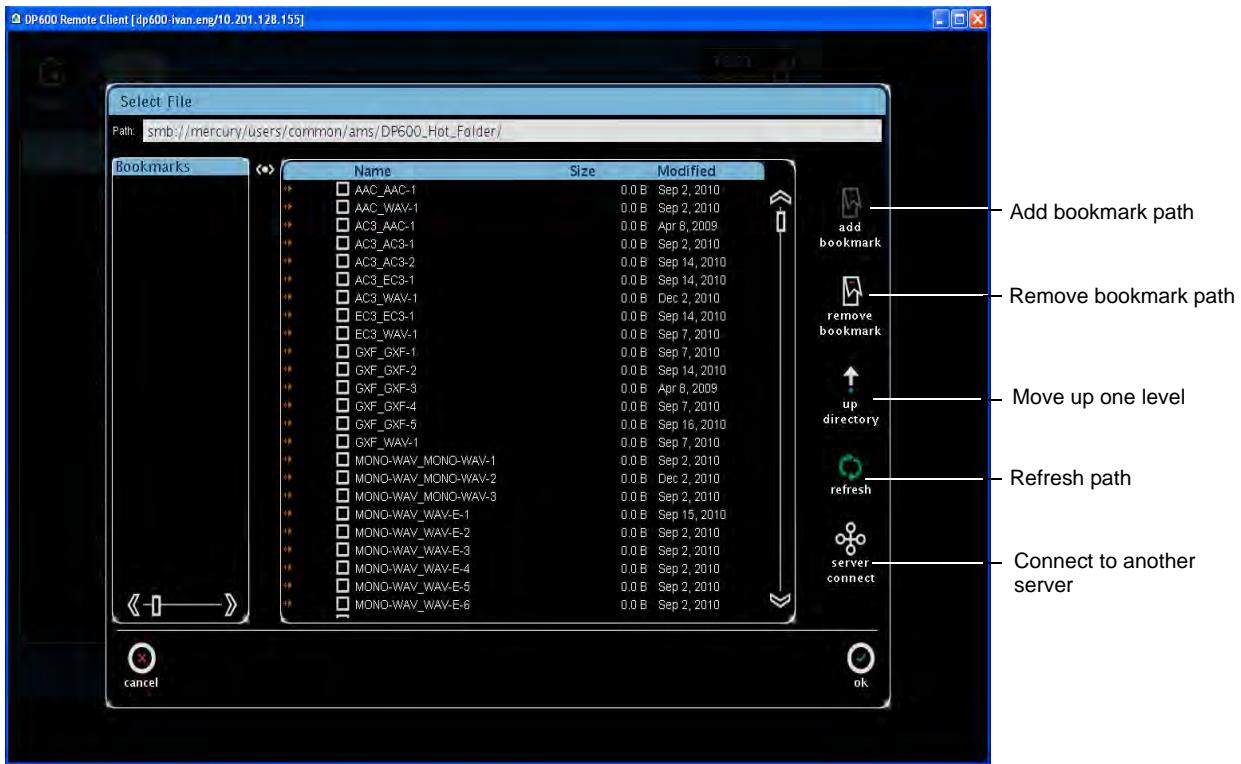


Figure A-9 Select File Screen

5. Click on the desired file or folder, then click **ok**.

Your path is displayed in the **Enter Path** screen, as shown in [Figure A-3](#).

This screen limits the number of files you can select, based on the expected configuration. As a result, a limited number of check boxes are displayed in this screen (for the corresponding work order).

6. Click **ok** in the **Enter Path** screen.

Your path is displayed in the **Add Work Order** screen, as shown in [Figure A-4](#).

If you want to create a bookmark, click on the desired file or folder in the **Select File** screen, click **add bookmark**, and then click **ok**.

The **Add Bookmark** screen is displayed with the bookmark file/folder name and URL displayed.

7. Enter a unique name for your bookmark in the **Name** field, as shown in [Figure A-10](#), then click **ok**.

Your bookmark is displayed in the **Bookmarks** pane at the left side of the **Select File** screen shown in [Figure A-9](#). It is also displayed in the **Choose a bookmark** drop-down menu (in the **Select Source Path** screen), where you can select it to specify a path.

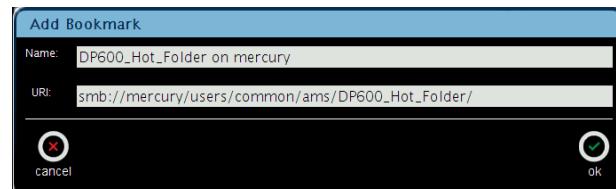


Figure A-10 Add Bookmark Screen

A.3.3 Selecting a Bookmark to Specify a Path

To select a bookmark:

1. Click the **Bookmarks** field in the **Enter Path** screen.
All the bookmarks you previously added in the **Select File** screen are displayed in the **Choose a bookmark** drop-down menu.
2. Select the desired bookmark in the drop-down menu to specify a path, then click **ok**, as shown in [Figure A-11](#).

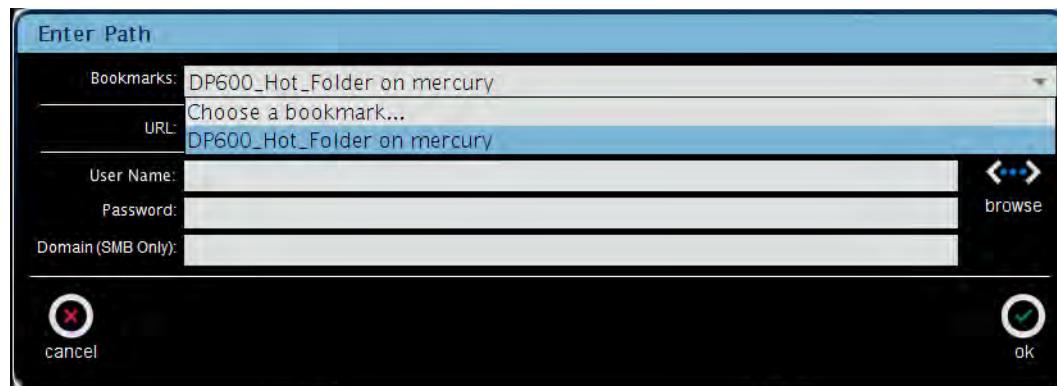


Figure A-11 Selecting a Bookmark

The selected bookmark path is displayed in the **Source** field in the **Add Work Order** screen, as shown in [Figure A-12](#).

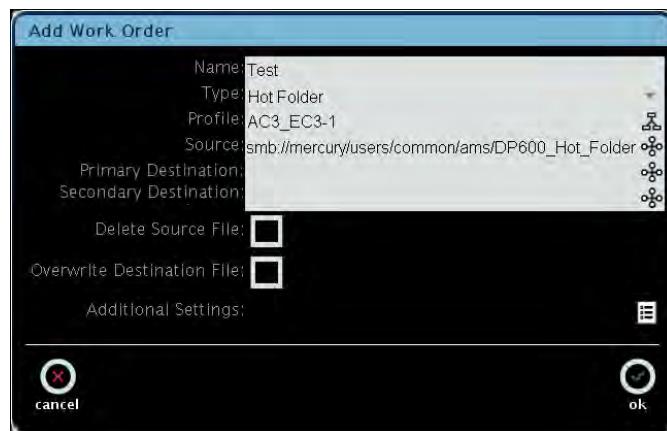


Figure A-12 Bookmark Entered in Source Field

A.3.4 Entering a Path for Work Orders with Multiple Files

If you are setting up a multifile standard, mono-only standard, or mono-only hot folder, the **Enter Path** screen displays some additional data-entry fields when you click in the **Source** field, as shown in [Figure A-13](#), [Figure A-14](#), [Figure A-15](#), and [Figure A-16](#).



Note: For multiple mono work orders, the system can accept only the following case-sensitive channel names as part of the file name: L (or LT), C, R (or RT), LS (or LSS), RS (or RSS), LFE (or LF or B), BSL (or LB, LRS, LE, or LSR), BSR (or RE, RSR, RB, or RRS).

For 5.1+2, the system can accept only LT and RT for the two stereo channels.

Entering a Path for a Multifile Standard Work Order

This type of work order processes multiple files as if they were a single file. The system measures each file for loudness and uses the overall results to apply the same value to each file. Enter the path to the source directory in the **Base URL** field, click in the **Files** field for each file in your work order, click **browse**, and then select each file from that directory. You cannot select files from more than one directory.

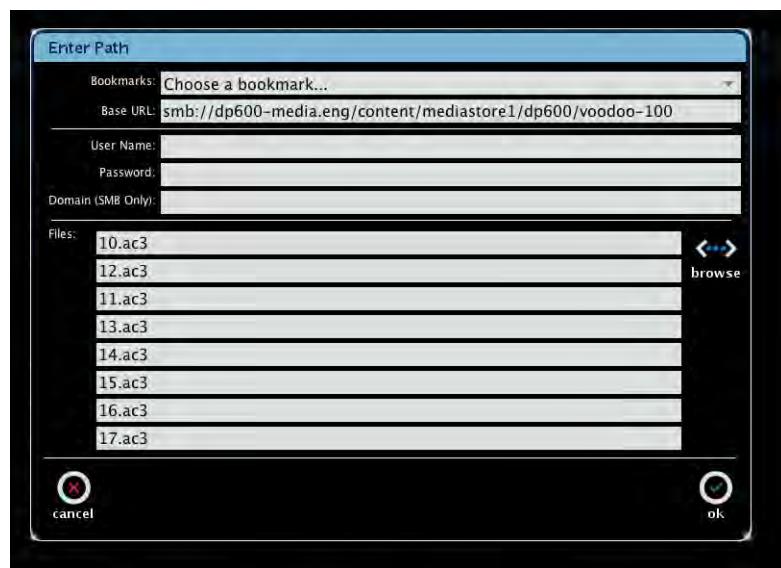


Figure A-13 Enter Path Screen for Multifile Standard Work Order

Entering a Path for a Mono-Only Standard Work Order

This type of work order processes audio in mono on a file-by-file basis. Each file represents a single channel of a multichannel program. Enter the path to the source directory in the **Base URL** field, click in the **Files** field for each file in your work order, click **browse**, and then select each file from that directory. You cannot select files from more than one directory. You also need to select the channel configuration, and specify a channel for every file in each program.



Figure A-14 Enter Path Screen for Mono-Only Standard Work Order (5.1+2)

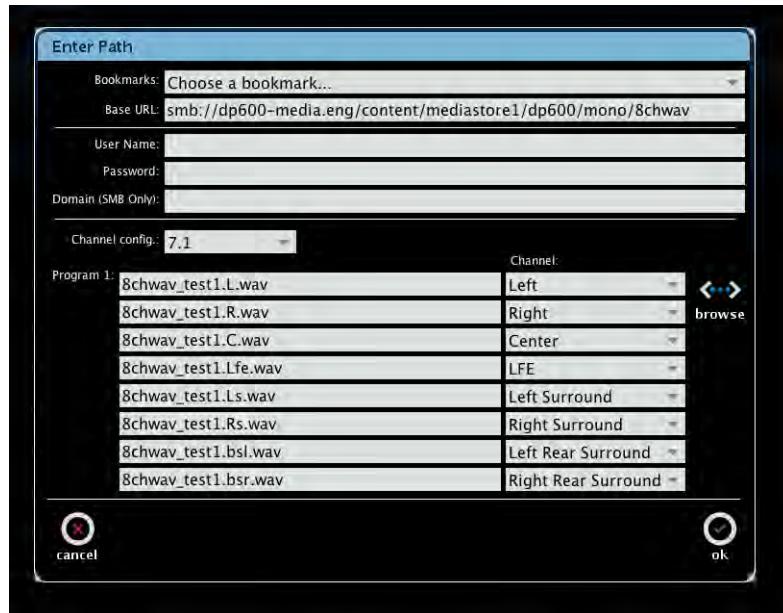


Figure A-15 Enter Path Screen for Mono-Only Standard Work Order (7.1)

Entering a Path for a Mono-Only Hot Folder Work Order

The system processes audio in mono on a file-by-file basis. Each file represents a single channel of a multichannel program. For a simple configuration, you also need to enter a channel configuration, and a timeout value that the system uses to cancel the work order if it cannot locate the required files in the specified time frame (displayed as **failed** in the work order database). If a work order fails, the hot folder itself remains active.



Figure A-16 Enter Path Screen for Mono-Only Hot Folder Work Order

The system groups the required number of files together for processing, based on a file pattern with a common base name and syntax. The **Basename** field in the **Enter Path** screen is not a data-entry field, but is displayed only to show how the system associates the required files. The fields following **Basename** are data-entry fields where you set up the syntax pattern for all the files with a common base name. The system can then process the files with the same syntax pattern and the same base name for the specified channel configuration. Be sure you store only the required number of files in the hot folder that use the same base name. If not, the system may output a multichannel program using the wrong files. [Figure A-17](#) shows the **File Pattern** data-entry fields, and [Figure A-18](#) shows an example configuration.



Figure A-17 Simple Configuration File Pattern Data-Entry Fields

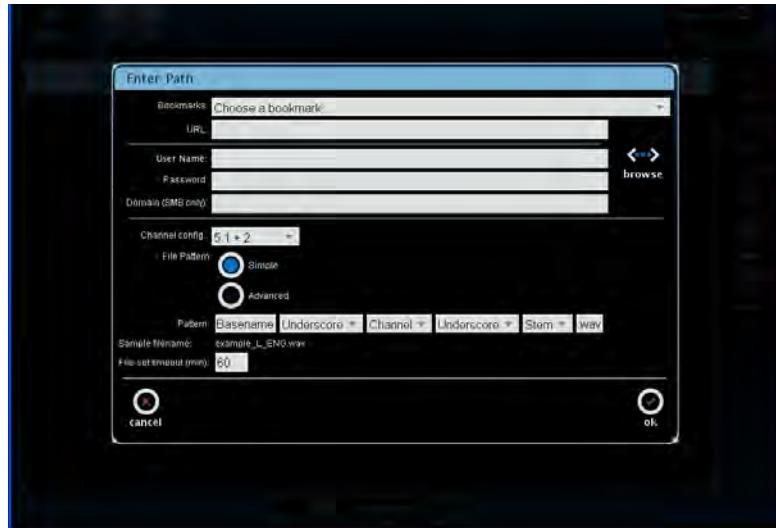


Figure A-18 Simple Configuration File Pattern Example

For information on the **Advanced** mono-only hot folder option, contact your authorized Dolby technical representative.

A.4 Entering a Destination Path

To enter a destination path:

1. Click the **Destination** field in the **Add Work Order** screen.

The **Enter Path** screen is displayed. This screen is identical to the **Enter Path** screen shown in [Figure A-2](#).

Use any of the methods described for entering a source path to enter the destination path, then click **ok** (see [Entering a Source Path](#)).

DP600 Program Optimizer

Detailed Profile Descriptions

B.1 Understanding DP600 Profiles

A DP600 profile defines a set of actions and processes on a specific type of source file, which includes specific actions on any or all audio data types and the configurations contained within them (if applicable).

Following are some important points to remember regarding DP600 profiles:



Note: DP600 profile information is updated periodically. For the latest information on DP600 profiles, please see updates to this manual in the DP600 area on www.dolbysupport.com.

1. The DP600 default profiles and processes always expect and are capable of providing multichannel .wav files that are restricted to the following channel order within the file: Left, Right, Center, Low-Frequency Effects, Left Surround, Right Surround per SMPTE 320M table 2. (Failure to adhere to this rule results in unintended behavior.) However, custom profiles are not subject to this rule.
2. All DP600 profiles and processes that expect or provide multichannel or multiprogram audio must be contained in a single file. (That is, all channels are interleaved.) For this reason, the DP600 does not support discrete (single-channel monophonic) input files that (together) comprise a complete multichannel audio program. However, the DP600 does support single-channel monophonic .wav or .aiff files that do represent a complete audio program.
3. For any DP600 profiles that expect a PCM .wav source file, the Dolby® metadata chunk¹ is optional. In cases where the metadata chunk is not present, the DP600 processes utilize a default set of metadata parameters, except where noted in the profile descriptions provided in this appendix. For this reason, the Dolby metadata chunk is required to obtain full control over any or all Dolby metadata parameters (on a file-by-file basis).
4. All decoder-related profiles that output PCM .wav files default to 16-bit sample depths (unless otherwise noted), except for Dolby E decoding, which defaults to 24-bit sample depths.
5. Unless otherwise noted, many files processed by the DP600 (that is, the output files) contain the text string -corrected, which is appended to the input file name. For example, a source file name such as DP600_test.mpg results in a processed file named DP600_test-corrected.mpg in your destination directory.

¹ The Dolby metadata chunk specification is available upon request.

6. Profiles that are capable of processing source files into multiple output files (for example, a 5.1+2-channel Dolby E decode) name each program as follows:
 - Program 1: source_filename-sequence[1]-program[1]-corrected.wav
 - Program 2: source_filename-sequence[1]-program[2]-corrected.wav



Note: The -corrected suffix is displayed if a loudness correction step was performed.

7. All profiles referencing MPEG-2 transport streams assume that only a single program is present.
8. For .wav files larger than 4 GB, the DP600 supports only the European Broadcasting Union (EBU) RF64 BWF-compatible multichannel file format. (An RF64 format file may also be termed as a Multichannel Broadcast .wav Format, or MBWF, file.)
9. All 20-bit Dolby E data must be formatted per SMPTE 337M and wrapped in a 24-bit .wav file container before transferring it to the DP600 for processing. (This excludes any Dolby E data contained within an MPEG transport stream, MPEG program stream, or GXF file.)
10. All 16-bit Dolby E data must be formatted per SMPTE 337M and wrapped in a 16-bit .wav file container before transferring it to the DP600 for processing. (This excludes any Dolby E data contained within an MPEG transport stream, MPEG program stream, or GXF file.)



Note: 16-bit Dolby E data is supported only when used with specific profiles. For more information, see the profile descriptions in [Table B-1](#).



Note: The .aiff file format does not support audio data (file) lengths greater than 4294967296 bytes (that is, 4.29 GB).

Table B-1 lists all DP600 default profiles.

Table B-1 DP600 Default Profiles

DP600 Profile	Description
AC3_AC3-1	Dolby Digital (.ac3) loudness correction
AC3_AC3-2	Dolby Digital (.ac3) 2/0 to 3/2L upmix with loudness correction; 1/0, 3/2L loudness correction
AC3_EC3-1	Dolby Digital (.ac3) loudness correction; directly convert to Dolby Digital Plus™ (.ec3)
AC3_WAV-1	Dolby Digital (.ac3) loudness correction (-24 LKFS); decode to PCM (.wav)
AC3_EC3-7.1-1	Dolby Digital 5.1-channel (.ac3) loudness correction (-24 LKFS); upmix and encode to Dolby Digital Plus 7.1 (.ec3)
EC3_7.1-AC3-1	Dolby Digital Plus 7.1-channel loudness correction (-24 LKFS); downmix and encode to Dolby Digital 5.1 (.ac3)
EC3_AC3-7.1-1	Dolby Digital Plus 7.1-channel encoding to Dolby Digital 5.1 Dolby Digital Plus 7.1 loudness correction (-24 LKFS); encode to Dolby Digital 5.1 (.ac3)
EC3_EC3-1	Dolby Digital Plus (.ec3) loudness correction
EC3_EC3-7.1-1	Dolby Digital Plus 5.1- or 7.1-channel (.ec3) decoding and loudness correction (-24 LKFS); upmix if 5.1 channels and encode to Dolby Digital Plus 7.1 (.ec3)
EC3_WAV-1	Dolby Digital Plus (.ec3) loudness correction (-24 LKFS); decode to PCM (.wav)
GXF_GXF-1	GXF Dolby E and PCM loudness correction (PCM @ -24 LKFS)
GXF_GXF-2	GXF PCM 5.1+2+2 loudness correction (-24 LKFS)
GXF_GXF-3	GXF PCM tracks 1+2/3+4 loudness correction (-24 LKFS)
GXF_GXF-4	GXF PCM 5.1 vertical ancillary data space (VANC) loudness correction (-24 LKFS)
GXF_GXF-5	GXF multiframe (up to five files) Dolby E+PCM (PCM @ -24 LKFS)
GXF_WAV-1	GXF Dolby E and PCM demultiplex to PCM (.wav)
MONO-WAV_EC3-1-7.1	8 × mono PCM (.wav), loudness correction (-24 LKFS) as 7.1 encode to Dolby Digital Plus 7.1 (.ec3)
MONO-WAV_MONO-WAV-1	8 × mono PCM (.wav) loudness correction (-24 LKFS) as 5.1+2; output 8 × mono PCM (.wav)
MONO-WAV_MONO-WAV-2	8 × mono PCM (.wav) loudness correction (-24 LKFS) as 5.1+2; output as interleaved 5.1 and stereo PCM (.wav)
MONO-WAV_MONO-WAV-3	6 × mono PCM (.wav) loudness correction (-24 LKFS) as 5.1; output as interleaved 5.1 PCM (.wav)
MONO-WAV_EC3-7.1-2	5.1 channel PCM (.wav), loudness correction (-24 LKFS); upmix and encode to Dolby Digital Plus 7.1 (.ec3)
MONO-WAV_WAV-E-1	8 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 5.1+2 Dolby E @ 29.97 fps (.wav, see SMPTE 337M)
MONO-WAV_WAV-E-2	8 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 2+2+2+2 Dolby E @ 29.97 fps (.wav)
MONO-WAV_WAV-E-3	6 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 5.1 Dolby E @ 29.97 fps (.wav)
MONO-WAV_WAV-E-4	6 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 2+2+2 Dolby E @ 29.97 fps (.wav)
MONO-WAV_WAV-E-5	8 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 5.1+2 Dolby E @ 25 fps (.wav)
MONO-WAV_WAV-E-6	8 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 2+2+2+2 Dolby E @ 25 fps (.wav)
MONO-WAV_WAV-E-7	6 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 5.1 Dolby E @ 25 fps (.wav)
MONO-WAV_WAV-E-8	6 × mono PCM (.wav) loudness correction (-24 LKFS); encode to 2+2+2 Dolby E @ 25 fps (.wav)
MONO-WAV_WAV-E-9	8 × mono PCM (.wav); encode to Dolby E 7.1 at 25 fps (.wav)

Table B-1 DP600 Default Profiles (continued)

DP600 Profile	Description
MONO-WAV_WAV/EC3-1-1	8 × mono PCM (.wav) loudness correction (-24 LKFS) as 7.1-channel Dolby Digital Plus (.wav); output to 24 bits
MONO-WAV_WAV/EC3-1-2	8 × mono PCM (.wav) loudness correction (-24 LKFS) as Dolby Digital Plus 7.1 (.wav); output to 16 bits
MONO-WAV_WAV/EC3-7.1-1	8 × mono PCM (.wav) loudness correction (-24 LKFS) as Dolby Digital Plus 7.1 (.wav); output to 24 bits
MONO-WAV_WAV/EC3-7.1-2	8 × mono PCM (.wav) loudness correction (-24 LKFS) as Dolby Digital Plus 7.1 (.wav); output to 16 bits
MP4_MP4-1	Dolby Digital and/or Dolby Digital Plus loudness correction in MP4
MXF_MXF-1	Dolby E (.wav or .aiff, see SMPTE 337M) and/or PCM (.wav or .aiff) loudness correction (PCM @ -24 LKFS) in Material Exchange Format (MXF) OP1a and OP1b
MXF_MXF-2	8 × 1 PCM (.aes) loudness correction (-24 LKFS) as 2+2+2+2 in D-10 MXF OP1a
MXF_MXF-3	8 × mono PCM (.wav) loudness correction (-24 LKFS) as 2+2+2+2 in Sony® XDCAM® MXF OP1a
MXF_WAV-1	Demultiplex generic container MXF, output PCM (.wav)
MXF_WAV-2	Demultiplex D-10 MXF as 2+2+2+2, output 4 × stereo PCM (.wav)
Omneon_Omneon-1	Dolby E (.wav or .aiff) and/or PCM (.wav or .aiff) loudness correction (PCM @ -24 LKFS) in MXF OP1a or OP1b, or Apple® QuickTime® reference file
Omneon_Omneon-2	8 × mono PCM (.mxf) loudness correction (-24 LKFS); encode to 2+2+2+2 Dolby E @ 25 fps (.wav)
PS_PS-1	MPEG-2 program stream; Dolby Digital and/or Dolby E/PCM and/or MPEG-1 LII loudness correction (MP2 @ -24 LKFS)
PS_WAV-1	MPEG-2 program stream MPEG-1 LII; Dolby E loudness correction (-24 LKFS); merge and decode to PCM (.wav)
TS_TS-1	MPEG-2 transport stream; Dolby Digital and/or Dolby Digital Plus and/or MPEG-1 LII loudness correction (MP2 @ -24 LKFS)
TS_TS-2	MPEG-2 transport stream MPEG-1 LII loudness correction (-24 LKFS); encode to Dolby Digital
TS_TS-3	MPEG-2 transport stream MPEG-1 LII loudness correction (-24 LKFS); encode to Dolby Digital and remove MPEG-1 LII
TS_TS-4	MPEG-2 transport stream; Dolby Digital loudness correction; directly convert to Dolby Digital Plus
TS_TS-7	MPEG-2 transport stream; merge, loudness correction of SMPTE 302M, encode to Dolby Digital, remove SMPTE 302M
TS_TS-8	MPEG-2 transport stream; Dolby Digital and/or Dolby Digital Plus and/or MPEG-1 LII loudness measurement
TS_TS-9	MPEG-2 transport stream demultiplex; loudness measurement and correction of 302M, remultiplex to transport stream
WAV/AC3_WAV-1	Dolby Digital (.wav); decode to PCM (.wav)
WAV/EC3_WAV-1	Dolby Digital Plus (.wav); decode to PCM (.wav)
WAV/E_AC3-1	Dolby E (.wav) or PCM (.wav) loudness correction (PCM @ -24 LKFS); convert to two Dolby Digital (.ac3) programs
WAV/E_EC3-1	Dolby E (.wav); convert to Dolby Digital Plus (.ec3) Decoding from 7.1 Dolby E to Dolby Digital Plus profile Modified profile to accommodate Dolby E 7.1 program configuration input, decode to PCM and encode to Dolby Digital Plus
WAV/E_STITCH_AC3-1	Dolby E (.wav) frame align, stitch to Dolby Digital (.ac3)
WAV/E_STITCH_AC3-2	Dolby E (16-bit.wav) frame align, stitch to Dolby Digital (.ac3)
WAV/E_WAV-1	Dolby E (.wav) loudness correction (-24 LKFS) to PCM (.wav) Decoding from 7.1 Dolby E to PCM profile Modified profile to accommodate Dolby E 7.1 input and decode to PCM
WAV/E_WAV-2	Dolby E (.wav) loudness correction (-24 LKFS) to PCM (.wav)

Table B-1 DP600 Default Profiles (continued)

DP600 Profile	Description
WAV/E_WAV/E-3	Multiple fused .wav input, fused and loudness corrected; correct individual files with fused loudness correction as reference
WAV/E_WAV/AC3-1	Dolby E (.wav) to Dolby Digital (.wav); 16-bit output
WAV/E_WAV/AC3-2	Dolby E (.wav) to Dolby Digital (.wav); 24-bit output
WAV/E_WAV/E-1	Dolby E (.wav) loudness correction and reencode
WAV/E_WAV/E-2	Dolby E (.wav) loudness correction
WAV-PT_WAV/E-1	PCM interleaved six-channel input (.wav) from Avid® Pro Tools®, loudness correction (-24 LKFS), encode to 5.1-channel Dolby E @ 29.97 fps (.wav)
WAV-PT_WAV/E-2	PCM interleaved six-channel input (.wav) from Pro Tools, loudness correction (-24 LKFS), encode to 5.1-channel Dolby E @ 25 fps (.wav)
WAV-PT_WAV-PT-1	Six-channel PCM (.wav) from Pro Tools; loudness correction to -24 LKFS; output as 5.1-channel interleaved PCM (.wav) for Pro Tools
WAV_AC3-1	Stereo or 5.1-channel PCM (.wav); loudness correction (-24 LKFS); encode to Dolby Digital (.ac3)
WAV_AC3_EC3-7.1-1 (from app)	PCM interleaved eight-channel (.wav); loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.ec3) and downmix to 5.1-channel Dolby Digital (.ac3)
WAV_EC3-1	Two- or six-channel PCM (.wav); loudness correction; encode to Dolby Digital Plus (.ec3)
WAV_EC3-7.1-1	Eight-channel PCM interleaved (.wav); loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.ec3)
WAV-PT_EC3-7.1-1	Eight-channel PCM (.wav) from Pro Tools; loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.ec3)
WAV-PT_EC3-7.1-2 (from app)	Eight-channel PCM (.wav) from Pro Tools; loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.wav); output to 16-bits
WAV_MPII-1	PCM (.wav) loudness correction (-24 LKFS); encode to MPEG-1 LII (.mp2)
WAV_WAV-1	PCM (.wav) loudness correction (-24 LKFS)
WAV_WAV-2	PCM interleave six-channel input (.wav); encode to Dolby Pro Logic® II; pass through stereo
WAV_WAV-3	PCM stereo (.wav); upmix to 5.1 channels (interleaved six-channel input), pass through mono and 5.1 channel PCM
WAV_WAV/E-1	PCM interleaved eight-channel input (.wav) loudness correction (-24 LKFS); encode to 5.1+2-channel Dolby E @ 29.97 fps (.wav)
WAV_WAV/E-2	PCM interleaved eight-channel input (.wav) loudness correction (-24 LKFS); encode to 2+2+2 Dolby E @ 29.97 fps (.wav)
WAV_WAV/E-3	PCM interleaved six-channel input (.wav) loudness correction (-24 LKFS); encode to 5.1-channel Dolby E @ 29.97 fps (.wav)
WAV_WAV/E-4	PCM interleaved six-channel input (.wav) loudness correction (-24 LKFS); encode to 2+2+2 Dolby E @ 29.97 fps (.wav337M)
WAV_WAV/E-5	PCM interleaved eight-channel input (.wav), loudness correction (-24 LKFS); encode to 5.1+2-channel Dolby E @ 25 fps (.wav337M)
WAV_WAV/E-6	PCM interleaved eight-channel input (.wav); loudness correction (-24 LKFS); encode to 2+2+2 Dolby E @ 25 fps (.wav)
WAV-PT_WAV-PT-7.1-1	Pro Tools version of the previous profile with channel remapping to accommodate Pro Tools 7.1-channel ordering for input and output (L, C, R, Ls, Rs, Bsl, Bsr, LFE)
WAV_WAV/E-7	PCM interleaved six-channel input (.wav) loudness correction (-24 LKFS); encode to 5.1-channel Dolby E @ 25 fps (.wav)
WAV_WAV/E-8	PCM interleaved six-channel input (.wav) loudness correction (-24 LKFS); encode to 2+2+2 Dolby E @ 25 fps (.wav337M)
WAV_WAV/EC3-7.1-1	PCM interleaved eight-channel input (.wav); loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.wav); output to 24 bits

Table B-1 DP600 Default Profiles (continued)

DP600 Profile	Description
WAV-PT_WAV/EC3-7.1-1	Eight-channel PCM (.wav) from Pro Tools; loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.wav); output to 24 bits
WAV_WAV/EC3-7.1-2	PCM interleaved eight-channel input (.wav); loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.wav); output to 16 bits
WAV-PT_WAV/EC3-7.1-2	Eight-channel PCM (.wav) from Pro Tools; loudness correction (-24 LKFS); encode to 7.1-channel Dolby Digital Plus (.wav); output to 16 bits

System Administrator Functions

This chapter is for DP600 system administrators only. Before users can operate the system, a system administrator must set up user IDs and passwords, which specify the respective access level for each user.

C.1 Access Levels

There are three DP600 access levels:

- **viewer** (default): No password required
- **user**: Password required
- **admin**: Password required



Note: You can change the **viewer** access level to **user** or **admin**.

C.1.1 Administrator Level

The **admin** level is intended only for system administrators. With this level of access, a system administrator can perform all DP600 functions.

C.1.2 User Level

The **user** level is intended for DP600 operators. Users can view information and system status, and set up work orders and generate reports, but cannot cancel or edit work orders or use the **config**, **upgrade**, **maintenance**, and **power** functions.

C.1.3 Viewer Level

At the **viewer** level, a user can view information and system status, but cannot operate the system. This is the default level of access and does not require a password.

C.2 Setting Up an Administrator Level Password

Before setting up **user** IDs, you need to add a new **admin** ID that you will use to log in to the system. You can perform this function using the DP600 touch screen user interface or the DP600 client. You or any other user can log in to the touch screen and the client with the same **user** ID, but all users must log in to each of these interfaces separately to access their respective functions.

To set up your **admin** ID:

1. Press or click the lock icon at the upper-right side of the **home** screen (next to the time and date), as shown in [Figure C-1](#).

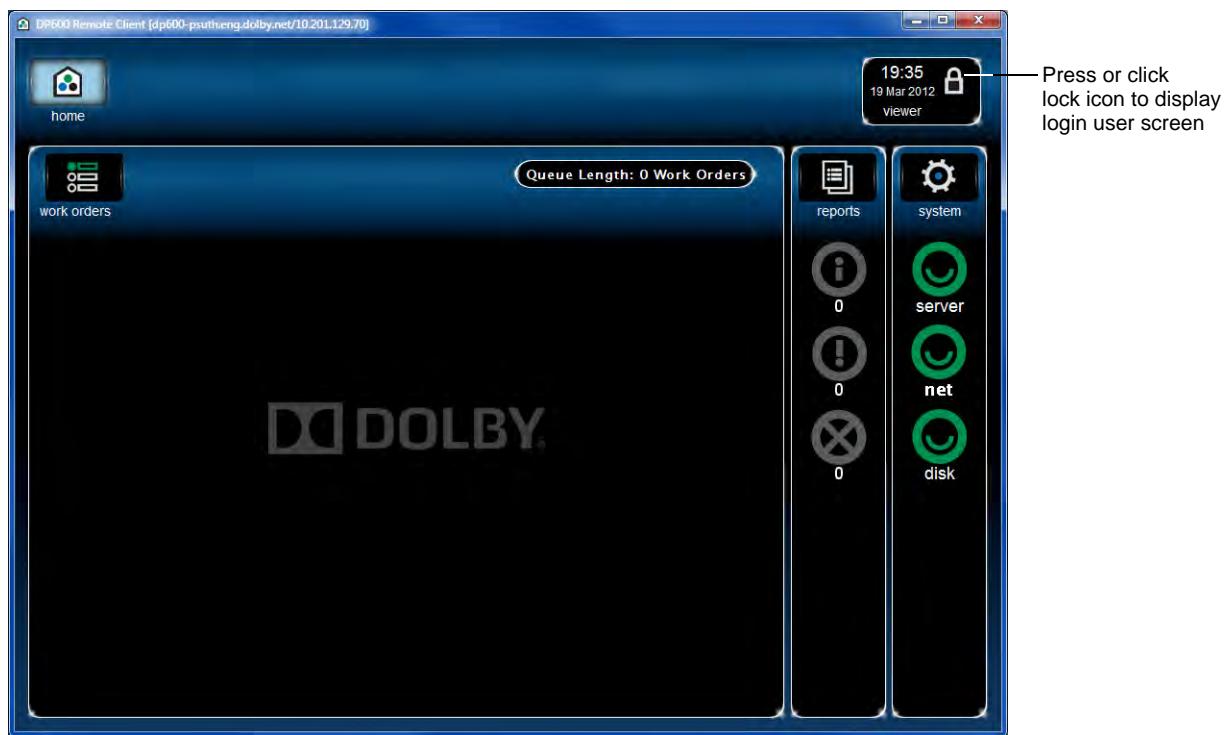


Figure C-1 Press or Click the Lock Icon to Display the Log-in Screen

The **Log In User** screen is displayed, as shown in [Figure C-2](#).

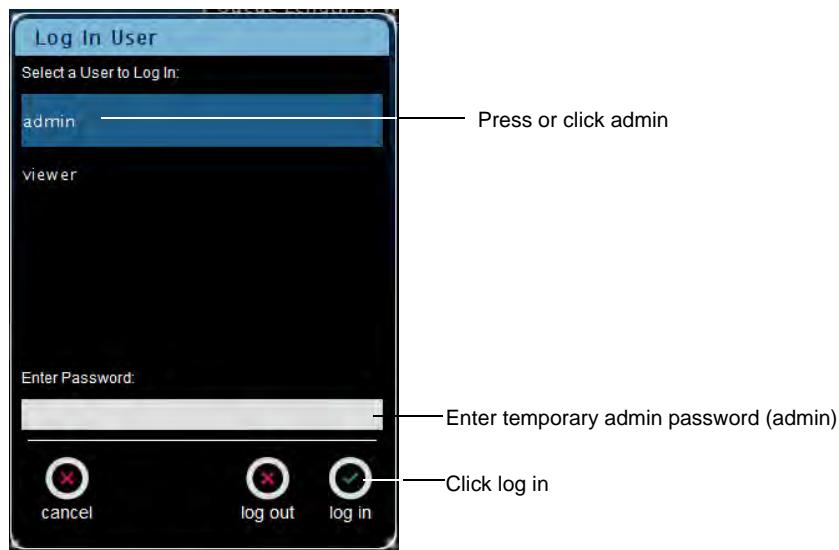


Figure C-2 Log In User Screen

2. Press or click **admin**, then click in the **Enter Password** field, enter the temporary password **admin**, and click **log in**.

The lock icon  changes to the unlocked position . This indicates that the system is now accessible at the **admin** level. You also see your ID displayed below the time and date. After ten minutes of idle time, the system returns to the locked position, but you should press **log out** to lock the system whenever you are done working in the unlocked mode.

3. Press or click **system**  below the lock icon.

The **system** screen is displayed, as shown in [Figure C-3](#).

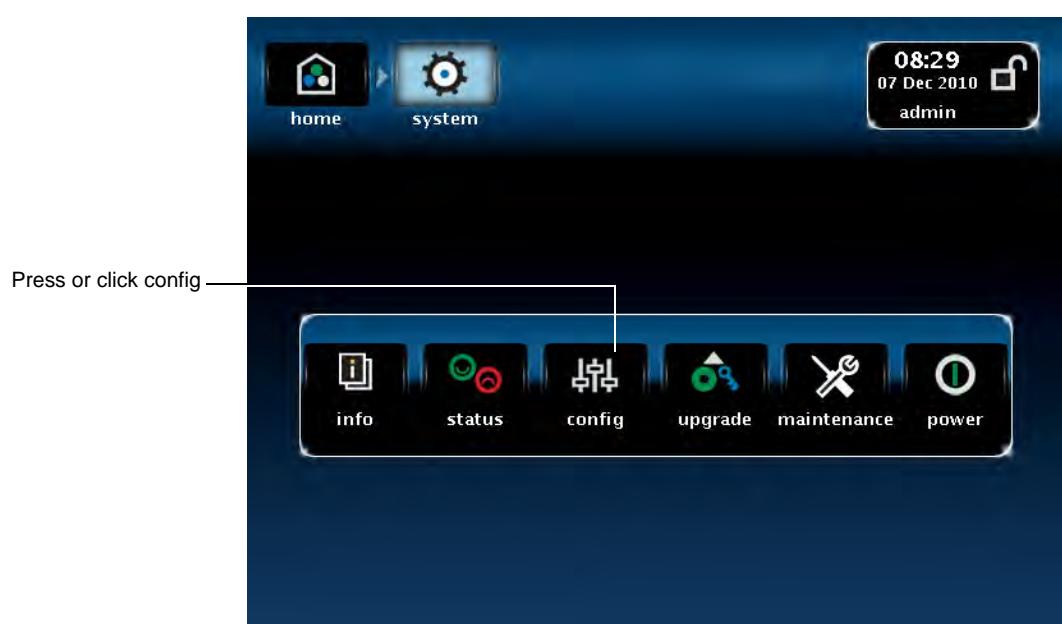


Figure C-3 Press or Click Config in System Screen

4. Press or click **config**  in the **system** screen.

The **config** screen is displayed, as shown in [Figure C-4](#).

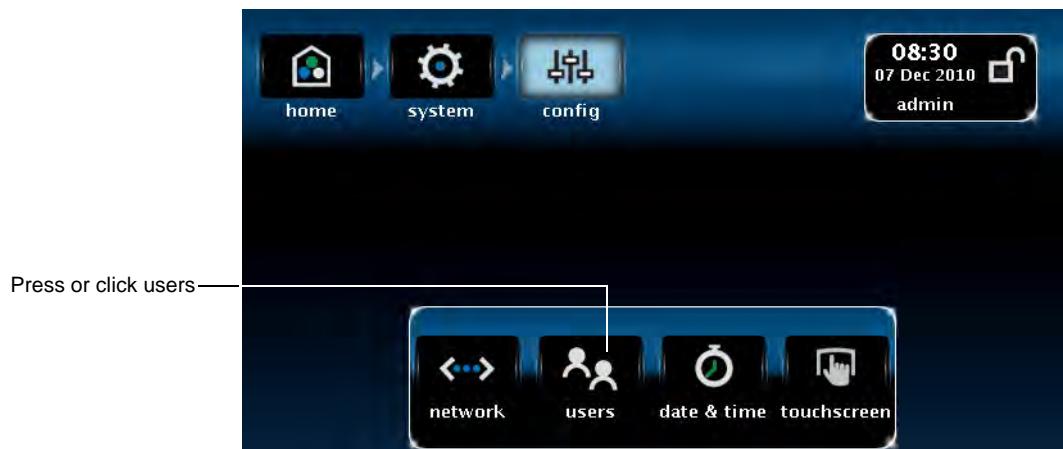


Figure C-4 Press or Click Users in Config Screen

5. Press or click **users**  in the **config** screen.

The **add (+)** and **delete (-)** **users** screen is displayed, as shown in [Figure C-5](#).



Figure C-5 Press or Click + in Add and Remove Users Screen

6. Press or click **+** to add a new **admin** level ID and password.

The **Enter New User** screen is displayed, as shown in [Figure C-6](#).

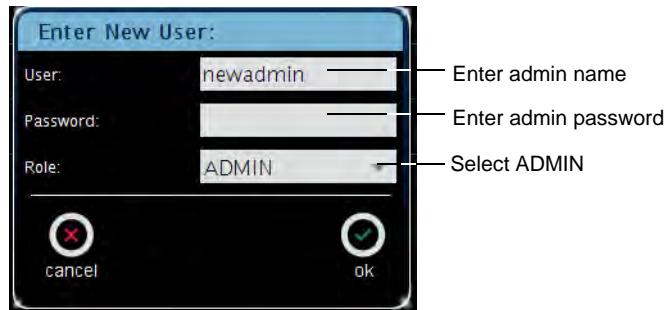


Figure C-6 Add Administrator Level User

7. Press or click the **User** field, then enter an **admin** ID using ten or less characters with no spaces.
8. Press or click the **Password** field, then enter a password, using 32 or less characters, and write it down in a safe place.
Later, you will delete the temporary **admin** ID and password, so be sure to keep a record of your new password.
9. Press or click the **Role** field, select **admin** in the drop-down menu, and click **ok**.
Your new **admin** ID and password are displayed in the **users** screen. You can add additional **admin** IDs using this same procedure.
10. Click the lock icon to display the **Login Users** screen (shown in [Figure C-2](#)).
11. Click **log out** to log out of the system.
12. Click **log in** to log back in to the system.
13. Login with your new **admin** ID and password.
14. Press or click the temporary **admin** ID in the **users** screen.
15. Press or click remove (-) to delete the temporary **admin** ID.
The temporary ID is no longer displayed in the list of users.

C.3 Adding Users

To add a **user** level ID, follow the same procedure described in [Setting Up an Administrator Level Password](#) (for adding an **admin** ID), but select **user** in the **Role** field.

C.4 Deleting IDs and Passwords

To delete a **user** ID or **admin** ID, select the desired ID in the **users** screen, then press or click remove (-).

C.5 Changing the Default Access Level

To change the default **viewer** access level to a **user** or **admin** access level (or to change any other default access level), select the desired **user** ID in the **users** screen, then press or click **default**.

C.6 Reconfiguring the System

To reconfigure the system, you need to log in with an **admin** level ID and password.



Caution: Before changing the network settings, be sure you're connected to a network.

To reconfigure the **network** settings, use the touch screen as follows:

1. Log in with your **admin** ID and password.
2. Press **system**  to display the **system** screen.



Figure C-7 System Screen

3. Press **config**  to display the **config** screen.

The **network**, **date & time**, and **touchscreen** settings are accessible only from the touch-screen interface. The **users** setting is accessible from either the touch-screen interface or the DP600 client.



Figure C-8 Config Screen

4. Press **network**  in the **config**  screen.

A prompt is displayed, informing you that the system needs to reboot and return to the commissioning application, as shown in [Figure C-9](#).



Figure C-9 Date and Time Reboot Screen

5. Press **ok** to return to the commissioning application, then page through the screens until you display the **network** settings.
This screen is similar to the **network configuration** dialog box in [Figure 2-7](#).
6. Change the network settings, then page through the screens and press the **finish** button.
7. The system automatically reboots with your new settings.

Reconfiguring the Date & Time Settings

To reconfigure the **date & time** settings, use the touch screen as follows:

1. Press **config**  in the **system**  screen.

The **config** screen is displayed, as shown in [Figure C-8](#). In this screen, you can reconfigure your **date & time** settings, if required.

2. Press **date & time** in the **config** screen.
A prompt is displayed, informing you that the system needs to reboot and return to the commissioning application (similar to the prompt in [Figure C-9](#)).
3. Press **ok** to return to the commissioning application, then page through the screens until you display the **date & time** settings.
This screen is similar to the **date & time** screen in [Figure 2-14](#).
4. Change the date and time settings, then page through the screens and press the **finish** button.
The system automatically reboots with your new settings.

Recalibrating the Touch Screen

Your DP600 touch screen was calibrated during the manufacturing process, but you may need to perform a recalibration if you experience any irregularities.

To recalibrate the touch screen, use the touch-screen interface as follows:

1. Press **config**  in the **system**  screen.

The **config** screen is displayed, as shown in [Figure C-8](#). In this screen, you can recalibrate the touch screen, if required.

2. Press **touchscreen**  in the **config** screen.

The **calibrate** button is displayed, as shown in [Figure C-10](#).

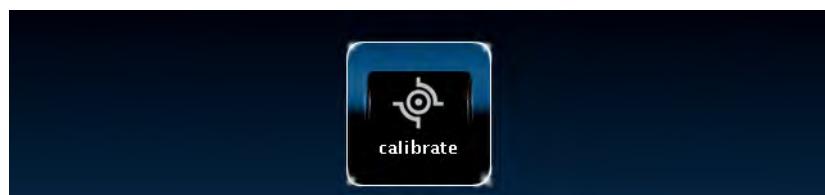


Figure C-10 Calibrate Button

3. Press the **calibrate** button.

The calibration setup is displayed with a small target at one corner of the screen, as shown in [Figure C-11](#). To calibrate the touch screen, proceed as follows within approximately 30 seconds from the time it displays. If you do not proceed within this time period, the calibration screen is deleted.

- Press the first target for a couple of seconds until it changes to a cross.
- Press the next target until it changes to a cross.
- Continue the above procedure for the additional targets.

When the calibration is complete, the **calibrate** button is displayed again, and you can now move on to any other screen, as required.

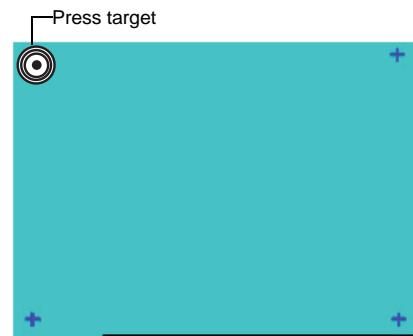


Figure C-11 Calibration Setup Screen

Upgrading Your License

To upgrade your license from a DP600 to a DP600-C (to allow encoding, decoding, transcoding, conversion, and other features), or to upgrade for upmixing, use the touch screen as follows:

1. Press **upgrade**  in the **system**  screen.

The **upgrade** screen is displayed, as shown in [Figure C-12](#). Currently, you can upgrade only your license from this screen, but not the DP600 software.



Figure C-12 Upgrade Screen

2. Press the **license**  button in the **upgrade** screen.

The **License Upgrade** screen is displayed, as shown in [Figure C-13](#). This screen looks similar to the **License** screen in [Figure 2-22](#) that you used to install your original license. You follow the same procedure (beginning on [page 20](#)) to upgrade your license.



Figure C-13 License Upgrade Screen

Maintaining Work Orders

To maintain your work orders:

1. Press or click **maintenance**  in the **system** screen.

The **maintenance** screen is displayed, as shown in [Figure C-14](#).



Figure C-14 Maintenance Screen

Archiving Work Order Reports Manually

To archive your work order report files, press or click **archive**  in the **maintenance** screen.

The **Report Archive Criteria** screen is displayed, as shown in [Figure C-15](#). This screen functions in the same way as the **Filter Work Order Criteria** screen, shown in [Figure 2-51](#). In this case, you specify which report files to archive, based on your archiving criteria. In addition, this screen provides the following options:

- **Archive Location** functions in the same way as entering a path for work order files, described earlier on [page 35](#) (and in greater detail in [Entering a Path](#) and [Entering a Source Path](#)). In this case, you specify the path where you want to archive your report files.
- **Group Results By** allows you to archive by work order or report type.
- **Zip Archive** allows you to archive your reports in a .zip file.
- **Delete After** allows you to delete the reports after archiving.
- **Loudness Only** allows you to archive only loudness reports.

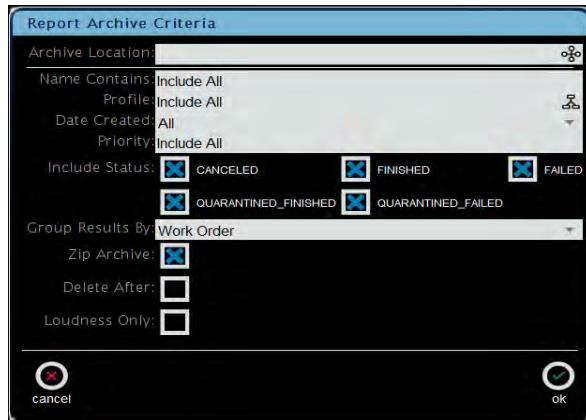


Figure C-15 Report Archive Criteria Screen

Deleting Work Orders Manually

To delete your work order files, press or click **delete**  in the **maintenance** screen.

The **Work Order Deletion Criteria** screen is displayed, as shown in [Figure C-16](#). This screen functions in the same way as the **Work Order Filter Criteria** screen, shown in [Figure 2-51](#). In this case, you specify which work order files to delete, based on your deletion criteria.

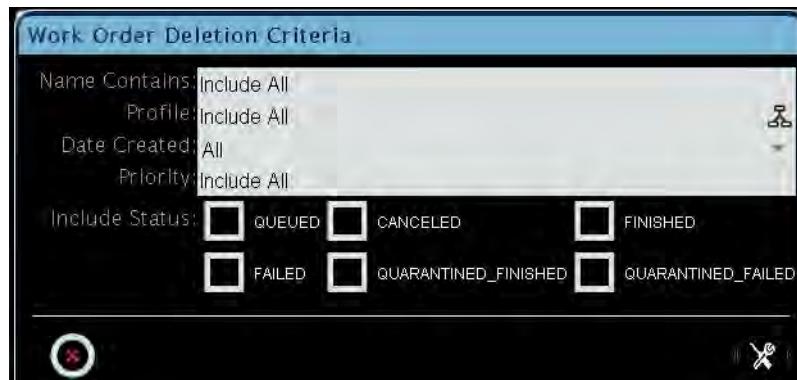


Figure C-16 Work Order Deletion Criteria Screen



Note: For the **Include Status** criteria, **QUARANTINE_FINISHED** is for corrected files and **QUARANTINE_FAILED** is for uncorrected files.

Archiving Reports and Deleting Work Orders Automatically

To archive work order reports and delete work orders automatically:

1. Press or click **automation**  in the **maintenance** screen.

The **automation** screen is displayed, as shown in [Figure C-17](#).



Figure C-17 Automation Screen

2. Press or click **add** in the automation screen.

The **Enter New Automation Criteria** screen is displayed, as shown in [Figure C-18](#). This screen functions in the same way as the **Report Archive Criteria** and **Work Order Deletion Criteria** screens, shown in [Figure C-15](#) and [Figure C-16](#). In this case, you can specify the work order reports to archive and work orders to delete on a recurring basis, based on the entered criteria.

In addition, this screen provides the following criteria: **Job Name** (name of automation job), **Automation Event** (archive, delete, or loudness export), **Start Time** (day, date, and time), **Frequency** (daily, weekly, or monthly), **Work Order Threshold** (deletes all work orders over the specified limit; set this up when you configure the system for the first time), **Archive Location**, **Name Contains**, **Profile**, **Date Created**, **Priority**, **Include Status**, **Group Results By**, **Zip Archive** (compresses archived report files), **Delete After**, and **Loudness Only**.



Note: For the **Include Status** criteria, **QUARANTINE_FINISHED** is for corrected files and **QUARANTINE_FAILED** is for uncorrected files.

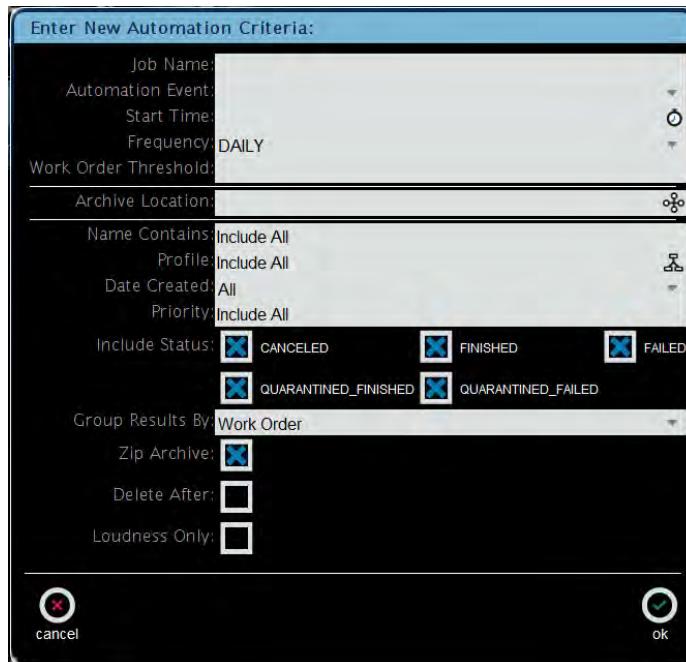


Figure C-18 Enter New Automation Criteria Screen

3. Enter the desired automation criteria, then click **ok**.

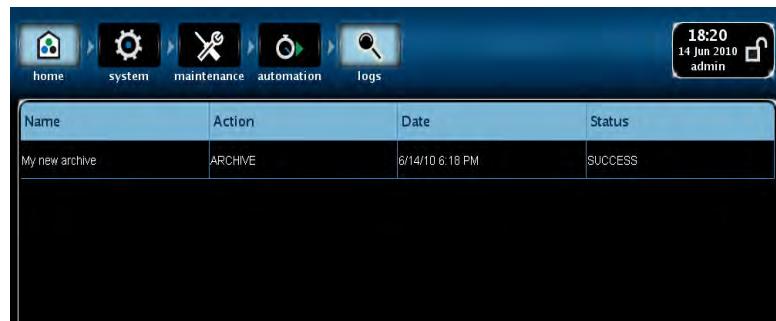
Your specified automation jobs appear in the **automation** window, as shown in [Figure C-19](#).



Figure C-19 Automation Screen After Setting Up Criteria

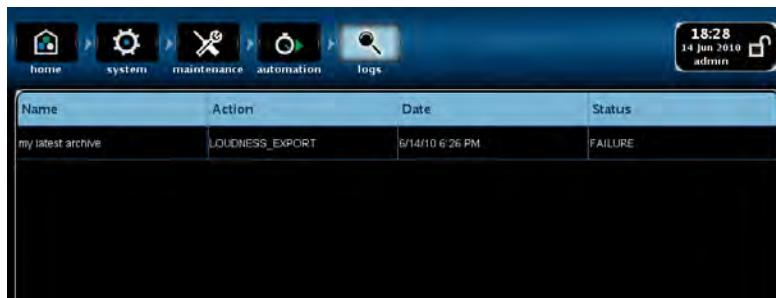
In addition to the **add** button, this screen also provides three additional options in the right margin:

- **logs:** Displays a list of logs, indicating the date, time, and status (success, failure, quarantine finished [for corrected files], or quarantine failed [for uncorrected files]) for the selected automation job, as shown in [Figure C-20](#) and [Figure C-21](#).
- **edit:** Displays the **Update Automation Criteria** screen for the selected automation job. In this screen you can edit the respective job automation criteria, as shown in the examples in [Figure C-22](#).
- **delete:** Deletes the selected automation job.



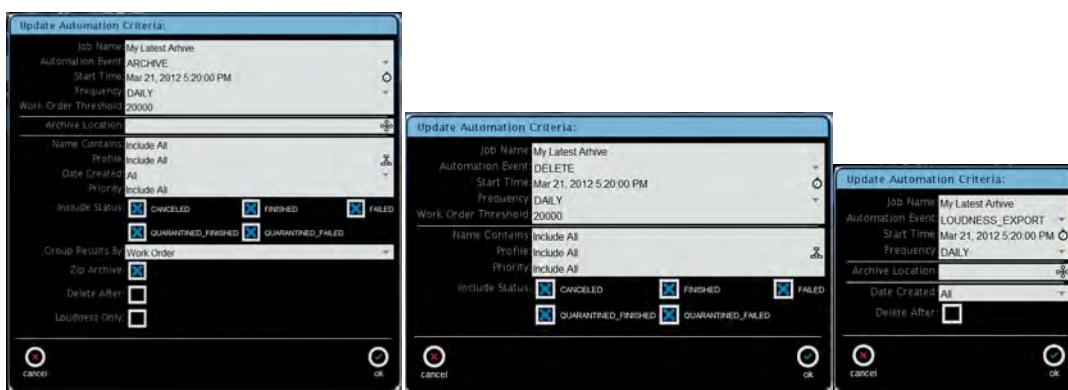
Name	Action	Date	Status
My new archive	ARCHIVE	6/14/10 6:18 PM	SUCCESS

Figure C-20 Logs Screen (Success)



Name	Action	Date	Status
my latest archive	LOUDNESS_EXPORT	6/14/10 6:26 PM	FAILURE

Figure C-21 Logs Screen (Failure)



The 'Update Automation Criteria' dialog box contains the following fields:

- Job Name:** My Latest Archive
- Automation Event:** ARCHIVE, DELETE, LOUDNESS_EXPORT
- Start Time:** Mar 21, 2012 5:20:00 PM
- Frequency:** DAILY
- Work Order Threshold:** 20000
- Archive Location:** (dropdown menu)
- Name Contains:** (checkboxes: Include All, Profile, Priority, Include All)
- Include Status:** (checkboxes: CANCELED, FINISHED, FAILED, QUARANTINED_FINISHED, QUARANTINED_FAILED)
- Group Results By:** Work Order
- Zip Archive:** (checkbox)
- Delete After:** (checkbox)
- Loudness Only:** (checkbox)
- Buttons:** cancel, ok

Figure C-22 Update Automation Criteria Screens

Archiving System Logs

To archive system logs, press or click **system log** in the **maintenance** screen.

The **Select System Log Output Directory** screen is displayed, as shown in [Figure C-23](#). This screen functions in the same way as entering a path for work order files, as described on [page 35](#) (and described in greater detail in [Entering a Path](#) and [Entering a Source Path](#)). In this case, you specify a directory where you want to save the DP600 server logs. If you experience a system problem, send the respective log file to your Dolby authorized technical representative.

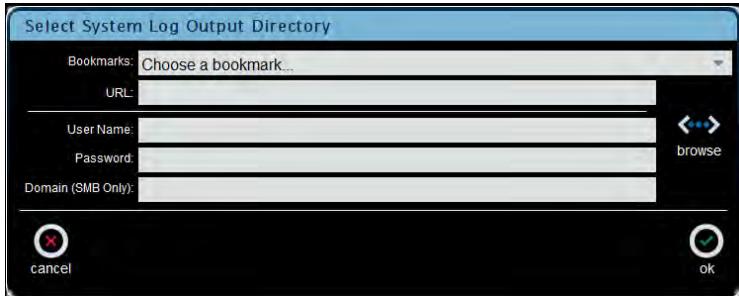


Figure C-23 Select System Log Output Directory Screen

Archiving Loudness Logs

To archive loudness logs, press or click **loudness log** in the **maintenance** screen.

The **Loudness Log Export** screen is displayed, as shown in [Figure C-24](#). In this screen, select an export location using the same procedure that is described for entering a path for work order files on [page 35](#) (and described in greater detail in [Entering a Path](#) and [Entering a Source Path](#)). In this case, you specify a directory where you want to save the DP600 loudness logs (in addition to entering the export criteria).

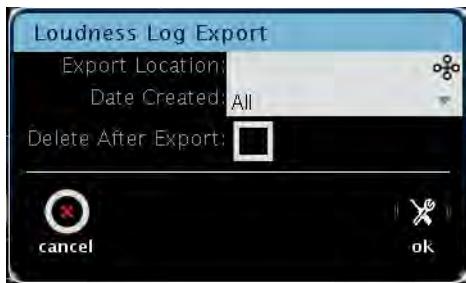


Figure C-24 Loudness Log Export Screen

The loudness log export function allows you to export loudness correction and work order status information for the specified time period. Each export provides a log file for each day in that time period.

Optionally, you can delete the logs after exporting.

Rebooting and Shutting Down the System

To reboot or shut down the system:

1. Press or click **power**  in the **system**  screen.

The **power** screen is displayed, as shown in [Figure C-25](#).



Figure C-25 Power Screen

2. To reboot or shut down the system, press or click **reboot** or **shutdown**, respectively.

A confirmation prompt asks if you're sure you want to reboot (or shut down) the DP600, as shown in the examples in [Figure C-26](#).

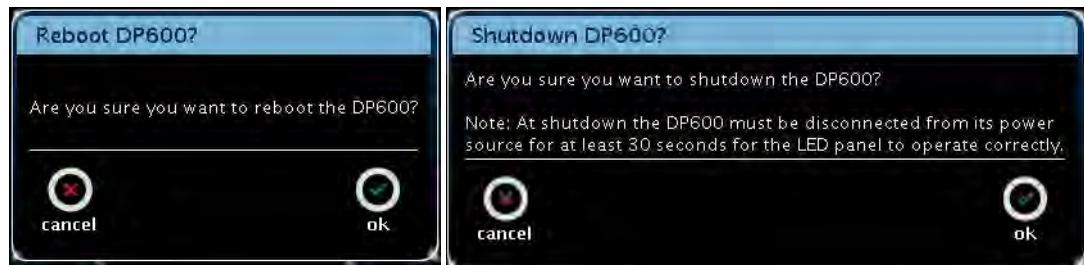


Figure C-26 Reboot and Shutdown Confirmation Prompts

3. Press or click **ok** at the prompt to reboot (or shut down) the system.

If pressing or clicking the **reboot** button does not work, you can press **<Ctrl> + <Alt> + <Delete>** on the provided keyboard.

When you shut down, the **Dolby DP600 Program Optimizer** screen is displayed, which tells you it is now safe to disconnect power and to wait 30 seconds before restoring power. When you see this screen, disconnect the power cables to shut down completely. Be sure to wait 30 seconds before reconnecting power.



Caution: Currently, the front-panel touch screen may not display the local **home** screen following a system restart, while remote clients continue to display correctly. In such a case, reboot the system again to display the local **home** screen.

access levels	95
admin	91
user	91
viewer	91
add work order	37
adding users	95
admin level access	
defined	91
logging in	36
setting up	92
applications	
cable	4
described	3, 4
IPTV	4
satellite	4
terrestrial broadcast	4
archiving work order reports, manually	100
archiving, system logs	105
audio processing	
with metadata	2
without metadata	2
audio transcoding	3
audio types	
coded	5
linear	5
supported	5
automatically archiving, reports	102–104
automatically deleting, work order	102–104
browse	
entering a path	76
cable applications	4
calibrating the touch screen	65
cancel, system setup	14
CD/DVD drive	6
changing the default access level	95
Client	
home screen	34
running	33
client	
described	31
coded audio types	5
config	96
date and time	
network settings	18
reconfiguring	97
default access level	
changing	95
deleting IDs and passwords	95
deleting work order reports, manually	100
DHCP	16
display control button	6
DP600	
applications	4
audio types	
supported	5
components	5
described	1
drive	
internal	54–59
replacing	54
formats	
supported	5
front panel	5
drive cover, reinstalling	59
drive cover, removing	55
hardware installation	11–26
home screen	27
integrating	3
LEDs	
internal drives	7, 53
power	7
power supply	7
temperature	7
power supply, replacing	60–63
rear panel	8
registering	24
software	
installing	63
upgrading	63
system reset	6
system setup	12–26
work-flow integration	3
DP600 Client	
home screen	34
running	33
DP600 client	
described	31
drive	
internal	
activity	7
failure	7, 53
replacing	54
Ethernet port	8
fans	8
filter criteria	45
formats	
media file	5
front panel	
components	5

gateway address	15
general configuration	14
Grass Valley hot folder	
described	32
selecting	37
hardware installation	11–26
home screen	
front panel	27
hostname	14
hot folder	
described	3
Grass Valley	
described	32
selecting	37
mono-only	
described	32
selecting	37
Omneon	
described	32
selecting	37
Pinnacle	
described	32
selecting	37
work order	
described	32
selecting	37
IP address	16
IPTV applications	4
LEDs	
DP600	
internal drives	7, 53
power	7
power supply	7
temperature	7
license	
downloading	25
upgrading	25, 99
linear audio types	5
local storage indicators	
front panel	5
login screen	36, 93
loudness analysis	3
maintaining	
work order	100
media file formats	5
monitor port	8
mono-only hot folder	
described	32, 81
selecting	37
mono-only standard work order	
described	32, 81
selecting	37
multi-file standard work order	
described	31, 81
selecting	37
netmask	16
network settings	14
date and time	18
DHCP	16
gateway address	15
general configuration	14
hostname	14
IP address	16
license	23
netmask	16
NTP settings	19
reconfiguring	96
select region	20
time zone	20
upper interface	16
Omneon	
hot folder	
described	32
selecting	37
Omneon standard work order	
described	31, 32, 81, 82, 83
selecting	37
path	
entering	74
add bookmark	79
browse	76
destination	80
select bookmark	79
source	74
url	75
pay-per-view	4
Pinnacle hot folder	
described	32
selecting	37
Pinnacle standard work order	
described	31, 32, 81, 82, 83
selecting	37
postproduction	3
power supplies	8
power supply	
DP600	
replacing	60–63
LEDs	7
power supply indicator	
front panel	5
profile descriptions	
details	85

program ingest.....	3	upper interface settings.....	16
PS/2 port	8	USB port	
front panel.....	5	rear panel.....	8
quality control.....	3	user level access	
defined.....	36, 91	logging in.....	36
rear panel		setting up	95
components.....	8	video-on-demand.....	3
reboot	106	viewer level	
registering product	24	defined.....	91
reports, automatically archiving	102–104	work flow	
retry count	42	controlling.....	3
retry delay	42	work order	
satellite applications	4	archiving reports, manually	100
scan interval	42	automatically deleting	102–104
select region.....	20	cancel	49
shared folder		creating	35–43
setting up.....	73	database.....	46
shutdown.....	106	delete	49
software		deleting reports, manually	100
information	98	described	31
installing.....	63	destination	40, 84
upgrading.....	63	edit	49
stable period	42	enable quarantine	42
standard work order		end at	41
described	31, 32, 81, 82, 83	exporting reports	49
selecting.....	37	filter criteria	45
status		Grass Valley hot folder	
checking.....	28	described	31, 32, 81, 82, 83
system		selecting	37
rebooting	106	hot folder	
setup.....	12–26	described	32
shutting down	106	selecting	37
status	28	info	46, 47
system administrator functions.....	91–106	IP address.....	42
system logs, archiving	105	IP port	42
system reset button	6	maintaining.....	100
system screen		mono-only hot folder	
locked.....	28	described	32, 81
unlocked	96–106	selecting	37
temperature		mono-only standard	
LEDs.....	7	described	32, 81
terrestrial broadcast applications.....	4	selecting	37
time zone	20	multi-file standard	
touch screen		described	31, 81
calibrating	65	selecting	37
front panel.....	5	Omneon hot folder	
recalibrating	98	described	31, 32, 81, 82, 83
upgrading		selecting	37
license	23–26, 99		
software	63		

Omneon standard	
described	31, 32, 81, 82, 83
selecting	37
pause	49
Pinnacle hot folder	
described	31, 32, 81, 82, 83
selecting	37
Pinnacle standard	
described	31, 32, 81, 82, 83
selecting	37
profile	3
described	32
selecting	38
reports	46, 50
reports, automatically archiving	102–104
retry count	42
retry delay	42
scan interval	42
source	39, 74, 80
stable period	42
standard	
described	31, 32, 81, 82
selecting	37
start at	41
type	37
work-flow	
integration	3