

Sonoris DDP Creator 6

User's Manual

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2	0	0	04:37:54	00:02:00	IMAGE.DAT		USQ		
	1	0	04:39:54	05:43:25	IMAGE.DAT			MCN	0813285908925
3	0	0	10:23:04	00:02:00	IMAGE.DAT		USQ	CD Tex	kt Project
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5	0	0	19:56:73	00:02:00	IMAGE.DAT		USQ	0	-14
	1	0	19:58:73	06:46:06	IMAGE.DAT				-17
6	0	0	26:45:04	00:02:00	IMAGE.DAT		USQ		-20
	1	0	26:47:04	04:32:36	IMAGE.DAT				
7	0	0	31:19:40	00:02:00	IMAGE.DAT		USQ	-20	-23
	1	0	31:21:40	08:24:61	IMAGE.DAT				
8	0	0	39:46:26	00:02:00	IMAGE.DAT		USQ		
	1	0	39:48:26	05:24:23	IMAGE.DAT				
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Introduction

What Is It?

Sonoris DDP Creator is a standalone Windows and OS X Compact Disc authoring application, compatible with virtually any DAW software on the market. DDP Creator allows you to assemble professional Red Book compatible audio CDs, and supports the import and export of DDP 2.00 images and Cue Sheet (.cue) files. It also enables you to burn and rip audio CD's, as well as send disc images to a replication plant using standard File Transfer Protocol (FTP).

CD Authoring

With DDP Creator, you can assemble a Red Book compatible CD by just dropping .wav, .aiff, .flac, or even .m3u files into the application's workspace, and then quickly set the track order. After doing so, you can adjust the spaces between tracks, and audition the final playback sequence by playing back the transition from one track into another. You can also edit the PQ points, ISRC, MCN and CD-Text data. Finally, you can export to a DDP file set, Cue Sheet or CD file, as well as print a PQ information sheet if needed.

DDP Export

The main feature of the DDP Creator software is the export of a CD project to a DDP 2.00 file set. The industry standard DDP protocol is supported by all major CD replication plants, and ensures an error free transfer and manufacture of your CD master. With this workflow, there is no longer a need to burn a physical master disc, with its inherent error-prone nature and the risks that go with it.

DDP Import

Besides the export of DDP files, DDP Creator can also import additional file sets, including DDP images made by other software such as Sonic Studio HD, Sadie, Sequoia and Pyramix. This feature allows you to check on all details of an imported project, including PQ codes, ISRC, MCN and CD-Text data. You can edit the project, playback tracks and export to DDP, Cue Sheet or burn a Redbook compatible CD. With the workflows above, you need never worry any more about the integrity of your DDP masters again, no matter what DAW they have been generated from.

DDP Creator "Pro" Version

The Pro version of DDP Creator adds even more functionality. With this option you can measure and normalize the tracks using the ITU-R BS.1770-2 / EBU R128 loudness recommendation. It also adds Enhanced CD support to the DDP Creator allowing you to open and export Enhanced CD DDP files and CD's. Adding a data session to an existing DDP file set is also possible.

Other Pro features include:

- vinyl mastering
- 24/32-bit support
- .csv CD text input
- .mp3 and aac encoding with No Clip technology
- Metadata editing (Allows you to open an existing DDP, edit metadata such as CD Text and save the DDP again without rewriting the image file.
- .wav export, with ISRC codes embedded, following the MPG / EBU standard
- batch export to multiple formats and loudness levels
- Google Drive, Amazon S3 and Microsoft OneDrive upload and share support

DDP Creator Features

- Supports import and export of .wav, aif, .flac and .m3u files
- 24 and 32 bit file support
- Sample rates from 44.1 KHz to 96 KHz supported
- High quality sample rate conversion (with Secret Rabbit Code)
- Re-ordering of tracks
- Add/edit ISRC, MCN and CD Text per track and/or for the entire project
- Add/edit track indices, including on the fly during playback
- Playback of individual tracks or entire project
- Adjust and playback transitions between tracks, with pre-roll
- Export DDP 2.00 image files
- Import DDP 1.0x and 2.00 image files
- Cue Sheet (cue) support
- Undo / Redo
- Pyramix .pmi CD image support
- CD Architect .cda CD image support
- CD Text binary file import and export
- Audio CD burning
- Audio CD import (ripping)
- Data CD/DVD burning
- MD5 checksum files automatically created
- MD5/CRC checking, compatible with many formats
- MD5 checker (Win/Mac) executable included in DDP image
- MP3 and AAC encoding, up to 320 kbps
- Red Book compliance checking
- PQ Sheet .pdf export with additional project fields
- Safe FTP uploading of DDP images
- Waveform display with zooming
- Edit functionality, moving and trimming of wave objects
- Reading ISRC codes embedded in .wav file following the MPG / EBU standard
- Peak meters
- Automatic Updates
- Easy Online License Activation
- USB drive based license activation for offline computers

DDP Creator Pro Features

- Vinyl mastering mode, exporting the project to two high resolution files for sides A and B
- Stereo phase correlation meter in vinyl mode
- Loudness and peak measurement and loudness normalization of tracks according to the ITU-R BS.1770-2 / EBU R128
- Edit CD Text, ISRC or MCN of an existing DDP without rewriting the DDP image file
- Adjustable gain per track
- Adding fades and crossfades, exponential and S-curve
- Dithering to 16-bit (if needed) with TPDF, HP-TPDF and three separate noise shaping flavors
- MP3 and AAC encoding with No Clip Technology to prevent clipping in the encoded file
- Automatic audio file tagging using CD text data
- Enhanced CD support
- Import of CD text with .csv files
- 24/32-bit file export capability
- Export files with variable naming (%track name%)
- ISRC codes embedded in .wav file following the MPG / EBU standard
- EBU R128 compliant loudness metering
- True peak metering
- Custom PQ sheet logo
- DDP encryption
- Replace all files in a project
- Batch export of projects to multiple formats and loudness levels in one go
- Google Drive, Amazon S3 and Microsoft OneDrive (auto) upload and share support

Basics and Terminology

DDP (Disc Description Protocol)

Disc Description Protocol is a format that details the specific content of an audio compact disc.

DDP file sets are often used to deliver a disc premaster to a duplication plant, which then uses the DDP file set as the basis for manufacturing the physical audio compact disc.

Compact Disc Audio Format

A Compact Disc (CD) always contains audio in a 16-bit, 44.1 KHz stereo format. This audio data is stored in a whole number of frames, where every frame consists of 2352 data bytes of audio. At a sample rate of 44.1 KHz, this means that the frame rate of a compact disc is 75 frames / second.

In general, frames are important because they define the boundaries that are used for the timing of the track. You can't have start or stop points between frames.

Tracks and Indexes

A CD can hold up to 99 separate tracks. Normally, each song gets its own track number; however, it is also possible for a CD to offer more tracks within each song. This capability can be useful if you want to give different sections in a song a separate track number, as is common on classical music recordings.

Another, less common way to divide a single track into different sections is to use "indexes". Some players support indexes, but in general this feature is not widely supported.

Each CD track can hold up to 100 indexes, including Index 0. Index 0 is a special index; it defines the "pregap" or pause before the audio starts. Most players show index 0 by displaying a negative countdown to 0:00.

It is not mandatory to use the index 0, and if you don't use it then you end up with a "gapless" CD (if burned in what is called Session at Once (SAO) or Disc at Once (DAO) mode). However, the very first index on a CD does have to be an index 0 entry, with a minimum length of 150 frames (2 seconds), as that is the requirement defined by the Red Book standard that all audio compact discs must confirm to. It is also mandatory to have an index 1 for each track on the disc.

An index 0 entry normally defines a pause between two tracks, but it is also possible to fill the index entry with audio. While doing so is not strictly Red Book compatible, it is supported by many players. The DDP Creator software supports this feature as well.

PQ Codes

PQ codes are start and stop markers for the CD player to read, in order to know where each track begins and ends. They are added to the start and end of each track, when generating a DDP file.

PQ codes refer to 2 of the 8 sub code channels that run alongside the audio data on a CD. The "P" and "Q" bits contain information such as track start, pause (end), index, and the basic Table of Contents data. They also include other information such as ISRC codes and the UPC code.

MCN (Media Catalog Number)

It is common to add a media catalog number (MCN) to a compact disc. This MCN number represents the standard UPC/EAN number, and should conform to the specifications of the UCC and EAN. EAN numbers are 13 digits long, and UPC numbers 12. UPC numbers should therefore have an extra 0 at the beginning. The last digit is a checksum of the preceding digits.

ISRC (International Standard Recording Code)

ISRC numbers are issued per track and have the following format:

- CCXXXYYNNNNN
 - CC is the 2-character country code
 - o XXX is the alphanumeric registrant code
 - YY are the last two digits of the year
 - NNNNN is a unique 5-digit number.

Please note that there should be only one ISRC code on a track, and that it is only valid on the first index entry for each track.

Enhanced CD

Besides audio data, a CD can also hold computer data such as images, videos, song lyric text, or even computer application files. A CD with additional data is called an "Enhanced CD".

It is possible to add data in the space before the first track, or as a separate data session on the CD. DDP Creator supports this extra session, as this is the most common and compatible format.

When an Enhanced CD is played back in a normal CD player it will play just like any other audio CD. However, when this CD is opened on a computer running the Windows or OS X operating systems, it will display the data session on the disc as an extra drive.

Loudness Measurement and Normalization

DDP Creator complies with the ITU-R BS.1770-2 / EBU R128 loudness recommendation.

The loudness measurement and normalization uses a measurement algorithm as described by EBU R128. The DDP creator software also allows for adjusting the loudness of the audio to the so-called "-23 LUFS" level, as recommended by the EBU.

More information can be found here: <u>http://tech.ebu.ch/loudness</u>.

Installing and Authorizing your Copy of DDP Creator

Installation

DDP Creator is available as a time-limited downloadable trial version, which can be evaluated free of charge. The trial version is available at:

https://www.sonorissoftware.com/product/ddp-creator/

- On the above web page, click on the "Download trial" link, where you can download a trial version of DDP Creator. Separate versions are available for Windows 32-bit, Windows 64-bit, and OS X.
- Once the installer file has downloaded, double click on it to open up the .zip file containing the installer file, then double-click the installer file itself. Follow the on-screen prompts that guide you through the rest of the installation process.

Authorizing DDP Creator in Trial Mode

In order to run DDP Creator in Trial of Licensed mode, you need to run the "License Activator" software, which can be downloaded at <u>https://www.sonorissoftware.com/activation/</u>

For more information on using the License Activator software to use DDP Creator in Trial mode, see the documentation that is included with the License Activator software

Authorizing DDP Creator in Licensed (Purchased) Mode

When the demo period has expired, a license for the full version of DDP Creator (either the Standard or Proversion) can be purchased online at the Sonoris online store, located at:

https://www.sonorissoftware.com/product/ddp-creator/

Select the version of DDP Creator you wish to purchase, then click on "Add to Cart", then follow the onscreen instructions from the online store. A serial number will be emailed to you, using the email address you have provided.

The purchased license can then be applied to the software to "unlock" the demo. This is done using the License Activator software.

Until the DDP Creator software is activated, a dialog box will appear with a link to the following web page

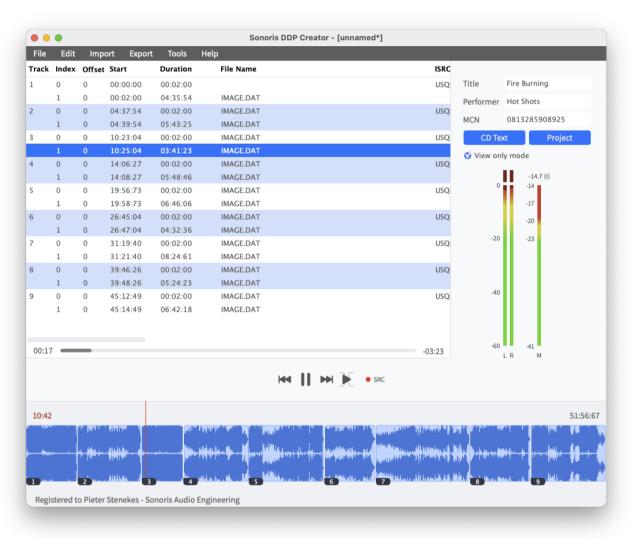
https://www.sonorissoftware.com/activation/

where you can read more information on the activation process.

Main Screen

After starting the DDP Creator software, the main screen will be displayed.

- On the left, the large window is the "project workspace".
- On the right is assorted text boxes and a buttons for disc data display, and navigation controls
- At the bottom, a waveform of the tracks' audio is displayed.



Project Workspace

The project workspace is the area where you add tracks and assemble the CD layout. The workspace consists of a table with the following columns:

Track: This displays the CD track number of the entry, ranging from 1 to 99.

After all of the files are added, you can change the track order by dragging a track to a new position. Note that before you can do this, you have to unlock the table by deselecting the "table locked" checkbox at the right side of the screen.

Index: This displays the sub index of the track entry, ranging from 0 to 99 within a track. Changing the index is possible by pressing the "+" or "-" keys on the computer's numerical keyboard.

Please also note that before you can change an index, you have to "unlock" the table, by deselecting the "table locked" checkbox at the bottom of the screen.

Offset: The offset value is the number of frames between the track's index point, and the actual playback start of the track.

Some CD players, especially older models, have a delay when jumping from one track to another, and this can cause problems when there is not enough space between the index point and the actual audio. In severe cases the start of the audio can be chopped off.

To avoid this problem, DDP Creator allows the possibility to add an offset value, before a track's index point. The recommended offset is a minimum of 5 frames, and the default value is 10 frames. You can change the default offset in the Tools / Settings menu.

Start: The start value represents absolute position of the index entry, relative to the 0:00 start time of the entire project.

File Name: This displays the name of the audio file that contains the audio of the index entry. This can be a .wav, aiff, .flac, .bin or DDP image file.

If the file name for an index entry is empty, then there will be no audio in this entry, and it will be treated as a pause.

The reverse is also true: all index entries, including 0, can contain audio if the file contains data for it.

Duration: Duration represents the length of the index entry in frames.

Note that the length of the offset is not included! You can change the length of a pause entry (index 0) by clicking on this field in the workspace, after unlocking the index table.

The length can be entered in frames (such as 150 frames for a 2 second pause) or in Minutes: Seconds: Frames format (for example 00:02:00).

ISRC: This displays the ISRC code of the track. The ISRC codes can be changed by clicking on the corresponding field.

Adding an ISRC code is only allowed on the first index of a track. For the proper format please look here.

If you enter ISRC data on track 1, the DDP creator will ask you if you want to apply incrementing ISRC codes for the other tracks.

Title, Composer, Performer, Songwriter, Arranger and Message: These fields represent the alphanumeric information used in CD Text discs, and can be edited by clicking on these fields.

- These fields can only be altered on an index 1 entry.
- The maximum number of characters is 160.
- All ISO 8859-1 characters are allowed. The DDP Creator will try to convert all other characters to the closest ISO 8859-1 counterpart if possible.
- If you enter performer data on track 1, the program asks if you want to apply the same performer text for the other tracks.
- Clicking the title field will insert the filename of the track if it is empty.

Gain (Pro Version Only): This field represents the gain, measured in dB, applied to this index. After unlocking the index table, you can adjust the gain by dragging the slider.

Loudness (Pro Version Only): This field represents the loudness of this index, measured in "Loudness Units Relative to Full Scale" (LUFS). This field is only visible after either of the functions "Measure Loudness" or "Normalize Loudness" is executed in in the Tools menu.

You can adjust the display of the above columns in the following ways:

Drag the column headers left or right to re-order the columns that are displayed

- Drag the column separators left or right to adjust the column width
- Hide/show various columns by right clicking on a header, and then select /deselect the desired column.

Fade In/Out (Pro Version Only): This fields represent the fade in or out time of this index, measured in milliseconds.

Fade In/Out Type (Pro Version Only): This field selects the fade in or out type of this index, exponential or S-curve.

Fade In/Out Shape (Pro Version Only): This field represents the fade in or out shape.

Right clicking a row will display a menu with options to delete indexes, tracks or the reference to a file. If the index is part of the same file as the previous index and the audio is contiguous the option to delete the index marker will be active. The option to add a pause is active if the track where the selected index belongs to doesn't have a pause.

Delete Index Delete Index Marker Delete Track Delete reference to file Add Pause Index Replace file Set track as start of Side B (Vinyl (Pro))

Replace file allows for changing the file that belongs to the index to another file. This can be useful if you want to add a revision to the project. If you do this on the first track then you can replace all files at once **(Pro Version Only).**

Set start of B Side selects the currently selected index as start of Side B in a vinyl project and doing so changes the project to vinyl mode.

Edit Disc Data

The CD Text information for the disc can be viewed, and modified, by clicking on the "Edit CD Text" button. A dialog window appears where you can enter in the following specific fields of CD-Text data:

- Title
- Performer
- Songwriter
- Composer
- Arranger
- Message
- Identification
- MCN
- Genre
- Genre Information
- Language

0 0	DDP Creator	
Title	Fire Burning	
Performer	Hot Shots	
Songwriter		
Composer		
Arranger		
Message		
Identification		
MCN	0813285908925	
Genre	Not used	÷
Genre Information		
Language	English	÷
ОК	Can	cel

Editing Project Data

The project information can be viewed and changed by clicking on the "Edit Project" button.

This information will appear on the DDP file's PQ sheet when generated, and the information can be saved as a program default.

Project settings that can be configured include:

- Engineer
- Studio
- Phone
- Email
- Client
- Project
- Source (Digital or Analog)
- Target loudness (Pro version only)
- Notes
- Logo (Pro version only)

• •					
Engineer				Logo	
Studio					
Phone					SONORIS
Email					PROFESSIONAL MASTERING SOFTWARE
Client					
Project					
Source Di	gital ᅌ	Target loudness	-23	Notes	
Load program d	efault setting	js	Load		
Save settings as	program def	ault	Save		
			ОК	Cano	cel

Deleting a Track or Index

Any of the tracks and indexes can be deleted by right-clicking (Windows) or Command-clicking (OS X) the index of a track. Note that to do so, the "table locked" box must be unchecked. A menu will appear and you can select to delete the index or track.

Playback Tracks



To play a track, select an index in the workspace, then press the "Play" button (or alternatively press the Space key on your computer keyboard).

Pressing the button or Space key again pauses the playback. Playback will stop when the user presses the pause button again, while the

transport is already in a paused state, or when playback reaches the end of the project.

When the sample rate of the current played track is not the same as the playback sample rate of the sound device, the SRC (sample rate conversion) light will turn red, indicating that real-time sample rate conversion is being performed.

Right clicking on the "Play" will show a menu with two options

- Pause after Playback: the cursor does not return to the start position after playback
- Stop after Playback: the cursor returns to the start position after playback

You can navigate between tracks, during playback, by clicking on the left /right arrow buttons. Clicking the left arrow button during the first few seconds of a track will skip back to the previous track, otherwise to the start of the current track. Clicking and holding the arrows will fast forward / rewind within the track.

The playback slider displays the relative track position, and you can click anywhere within the slider, to quickly navigate to any position within the track.

00:00

-00:01

Playing a Transition between Two Tracks

You can audition the transition between two tracks by pressing the "Play Transition" button.

Pressing the "Play Transition" button again, or the pressing the Space key, pauses the playback.

You will hear the end of the last index of the current track, played into the first index of the next track. If a pregap exists between the two tracks, it will be played in-between.

The pre-roll time before the next track can be set in the Settings menu.

Waveform Display



The waveform display shows the amplitude of the audio for each track in the project.

- You can zoom horizontally in and out on the waveform display by either:
 - Using the mouse wheel
 - Sliding two fingers up on the track pad (OS X).
- You can zoom vertically in and out on the waveform display by either:
 - Using the mouse wheel
 - $\circ~$ Sliding two fingers up on the track pad (OS X) while holding the control key (Windows) or command key (OS X)
- You can scroll horizontally on the waveform display by either:
 - Using the mouse wheel while holding the shift key
 - Sliding with two fingers on the track pad horizontally (OS X).

Left clicking on the waveform display will move the cursor to that position. Right clicking, while the table is locked, will start or stop playback.

Adding a Track or Index Marker

Right clicking (or control clicking) on the red cursor in the waveform display, while the table is unlocked, will display a contextual menu, offering four separate commands:

- Add Index Marker Here: This command adds an index marker at the current location of the red play-head cursor.
- Add Index Marker At Position: This command opens up a dialog box where you can enter in the precise position where the new index marker should go. The position can be typed in Minutes: Seconds: Frames or just frames.
- Add Track Marker Here: This command adds a new track marker at the current location of the red play-head cursor.
- Add Track Marker At Position: This command opens up a dialog box where you can enter in the precise position where the new track marker should go. The position can be typed in Minutes: Seconds: Frames or just frames.

The above features are useful for taking a single audio file that represents one long continuous recording (such as a live performance) and adding separate tracks at appropriate points in time.

Moving Wave Objects

You can move wave object by dragging them. Dragging a wave object to the right, away from another object will add a pause index in between them if needed.

Trimming Wave Object

Trimming is possible by dragging a wave object's border. When doing so, the cursor will change, when doing so, to reflect its current function.

Moving Index Handles

Sometimes you want to adjust the start of an index relative to the audio file. This is possible by dragging the index handles at the bottom of the waveform.

Fades and Crossfades (Pro Version Only)

Fade in and fade out times can be adjusted with the fade handles, or by changing the fade values in the table. Dragging a wave object with a fade in over another wave object will add a crossfade.

It is also possible to resize the waveform by dragging the small line at the top right corner either up and down.

It is also possible to drag the track marker within a crossfade. As you drag the marker within the crossfade, the next track will now start at the point of time, within the crossfade, that you have adjusted the marker to.

This is a very useful feature when you wish to fine tune the start of the track in the crossfade.

You can select between an exponential fade or a S-curve fade by right (or control) clicking in the fade area.

Dragging up or down in the fade area will change the shape of the fade.

File Menu

DDP Creator's file menu offers various tools for working opening, saving, and exporting various file formats. It contains the following tools:

New

Selecting "new" discards the currently loaded project, and then creates a new one. If the current project is altered since the last save, you will be prompted to save the project first.

Open

Selecting "open" opens a previous saved project, using a standard Windows / OS X file dialog box.

During the loading process, DDP Creator checks the existence of each individual audio file contained within the project. If it cannot find a file that is referenced by the project, you will be prompted to point to it in the dialog box. After you have done so, DDP Creator will look for the other referenced files in the same folder that has been pointed to.

Open Recent File

Selecting "Open Recent File" displays a group of the most recently opened files; you can then select the desired project to open. This method provides a quick and easy way to work with recent files, without having to manually navigate to the specific folder they have been saved to.

Save

Selecting "save" saves the currently loaded project. If the project is being saved for the first time, a dialog box will appear, allowing you to give a name for the saved project, and specify the destination of the saved file. The file format for the project is a ".dpf" file, short for DDP Creator Project File.

Save As

Selecting "Save As" saves the currently loaded project as a different file; a dialog box will always appear, since the project needs a new file name to distinguish it from the current version.

Using the "Save As" command can be useful for saving different, simultaneous versions of a project such as:

- Creating different song order sequences for an album; you can then load each different project file and audition the different song transitions in each saved version, to decide which song order sounds best to you
- Creating different versions of a CD, for example, creating a normal version of a CD, and then creating a different version of the project file, that contains extra "bonus" tracks exclusive to the deluxe version of the CD.

Save PQ Sheet as PDF

Selecting "Save PQ Sheet as PDF" saves the project's PQ sheet to a standard .pdf format file. It is recommended to send this sheet along with the DDP files to the duplication plant, as a point of reference.

Before the command is started, the project is tested against the Red Book rules.

In vinyl mode this menu option will show as "Save Tracklist as PDF", creating a tracklist for each side.

Quit

Selecting "Quit" will exit the DDP Creator application. If the currently loaded project contains any unsaved changes, you will be prompted to first save them before exiting.

Edit Menu

DDP Creator's Edit menu offers tools for undoing/redoing assorted operations.

Undo

Selecting "Undo" will undo the last action that has been performed in the program.

Redo

Selecting "Redo" will redo the most previously undone action.

Import Menu

DDP Creator's Import menu offers various tools for loading / importing different file formats. It contains the following tools:

DDP Image

Selecting "DDP Image" brings up a standard file dialog box, where you can import any DDP (Disc Description Protocol) file that conforms to the DDP 1.0x or 2.00 specifications. If the imported DDP file contains CD Text data, it will be referenced in the imported project.

After the DDP file has been imported, the project window displays the current DDP image as a regular DDP Creator project. You are then prompted to point to a folder to save the DDP image.

The DDP Image import function enables you to import DDP images made by other applications that have the ability to save a DDP file, and then view/edit the imported DDP file's PQ points, CD text, ISRC, MCN and other data.

You can also playback the audio from the imported DDP file, and burn a Red Book compatible CD, with or without CD Text. The project can be further modified, and other audio files can be added if desired. It is also possible to change the track order.

Finally, the edited DDP project can be exported again to a new DDP file, CUE Sheet or physically burned CD.

After importing a DDP file, a md5 check will automatically be performed if a supported md5 file is found. This feature can be disabled in the Settings menu or in the popup menu.

File(s)

Selecting "Files" allows you to add audio files into the currently loaded project (This function can also be performed by dragging the individual audio files into the main window of the currently loaded project).

A DDP Creator project can import audio files in the following specific formats:

- .wav
- .aiff
- .flac
- .m3u

Mono and stereo files with a bitdepth of 16, 24 and 32 bit and a sample rate from 44.1 KHz up to 96 KHz are supported.

Depending on the default pause setting in the Tools | Settings dialog, a pause or pre-gap will be added before each track. Setting this default value to zero disables this function.

Note that the DDP Creator does <u>not</u> change the imported audio in any way, like resampling or changing the bit-depth. However, the DDP Creator Pro version does have an option to change the gain of the imported file.

If the DDP Creator Pro option is installed, adding a computer data .iso file is also possible. Doing so will add the .iso file as a data session to the current project. It will appear as the last track and have a green background color. The .iso file can be any regular ISO 9660 or hybrid HFS file.

It is possible to create an .iso file with the Create ISO file function, available in DDP Creator Pro only.

User Tip: How to make a Gapless CD

On some occasions, you may wish to make an audio CD that does not have any gaps between the different tracks when playing back. To do so, follow these easy steps:

- Add consecutive audio files using the import file command described above
- Delete the pauses in between each of the added files
- Set the Index Offset to zero.

CUE Sheet

Selecting "Cue Sheet" allows import of the widely supported CUE Sheet (.cue) file standard.

- Only cue sheet files using way, aiff or flac files, and configured as a binary image file, are supported.
- All indexes and CD Text entries are preserved. This function ensures compatibility with other software that can export CUE Sheet files.

Pmi Image

Selecting "Pmi Image" allows import of a .pmi CD image, which would be generated by the "Pyramix" DAW. All indexes and CD Text entries in the .Pmi file are preserved.

Cda Image

Selecting "Cda Image" allows import of a.cda CD image, which would be generated by the "CD Architect" software. All indexes and CD Text entries in the .cda file are preserved.

In the CD Architect software, click File /Save As, then choose "CD Architect image file *.wav" as the format. This is a wav file with all of the cd information embedded within it. Due to a bug in CD Architect, the performer field will not be exported.

Audio CD

Selecting "Audio CD" allows import of an audio or Enhanced CD residing in the computer's optical media drive, by "ripping" its content to the computer hard disc. All indexes and CD Text entries are preserved. You will be asked where to store the audio files.

DDP Creator depends on the error-checking capabilities of the computer's optical drive to ensure that the audio data is read reliably with no errors.

Export Menu

DDP Creator's Export menu offers various tools for exporting the current project to different file formats. It contains the following tools:

DDP Image

Selecting "DDP Image" exports the currently loaded project to a DDP 2.00 format file set, including CD Text if that option is selected.

Upon exporting, you are presented with a dialog box, and are prompted to enter a folder destination, and a name for the exported DDP file set image. The files will be stored in a folder with the name you entered in the folder you selected.

(Pro Version Only): The export process offers dither/noise shaping settings, allowing the selection of specific dither options. When selected, dither will only be added when:

- The audio material has a bit-depth greater than 16 bit
- Any time that gain is applied
- Any time that fades are applied, and only to the actual faded audio
- Sample rate conversion is applied

An MD5 checksum file is also created, along with a Windows or OS X application, in order to allow for quick checking of the checksum values.

The exported DDP file set can then be sent to your disc replication company of choice. By sending the data files, instead of a physical CD Master, you enjoy the following advantages:

• A computer data DDP file set is inherently more "foolproof" than a physical CD master. Whereas the data contained on a CD master can be damaged or corrupted, the DDP project file set is computer data; this means it can simply be transferred, over the internet, to the replication facilities' computer, with the confidence that the file is 100% unchanged.

The included checksum utility insures this, because it allows the replication facility to verify that the data file they receive is a 100% data match, down to the last byte, as the file you have sent them.

• There is no need to spend time and money mailing a physical object (a CD master) to the replication plant. The DDP file set can be sent to the replication facility using any commonly available large file transfer service, such as Dropbox, Google Drive, etc.

DDP Creator Pro contains an additional useful feature; it will detect if any changes are made that would affect the DDP image file(s). If not, it will then ask if you only want to save the project metadata.

This feature allows you to edit metadata such as CD Text, ISRC or MCN of an existing DDP file set, without rewriting the entire image file. This feature is very useful if the DDP's actual audio content was already approved by the client.

The Pro version also contains an encryption feature. If selected, you will be prompted for a password. The DDP files will be encrypted, making it impossible for others to open it. Only another DDP Creator Pro can open it with the password. This can be useful if you want to protect the integrity of the master because it is impossible to make changes by anyone without the password.

File(s)

Selecting "Files" exports the tracks in the current project to audio file(s).

If the current project is an Enhanced CD project, the data section of the project will also be saved as a data (.iso) file (DDP Creator Pro only).

A dialog box will appear, offering the option of exporting the project's audio files as .wav, .aif or .flac files.

Folder name	1	
rotoer name		
Format	WAV	÷
Samplerate	44100 Hz	÷
Bitdepth	16 bit	÷
Dither	Off	¢
Noiseshaping	Off	÷
Output	Split	¢
Export pauses	Ø	
No Clip	•	
Album Mode	•	
OK	Cance	

(**Pro Version Only):** In the Pro version, additional functions are available for the File(s) function, including:

- The exported audio files will be automatically tagged, using the data taken from the project's CD text
- You can choose the output sample rate. Selecting "As source" will use the original sample rate for each file (Split)
- You can output 24 and 32 bit files using the dither / noise shaping options
- You can use No Clip Technology when encoding .mp3 and .m4a (AAC) files
- Wav files will have the ISRC code embedded, following the MPG / EBU standard

The global "Image generation" setting also applies here to the export file(s) function.

No Clip Technology (Pro Version Only)

Encoding audio to .mp3 or .m4a (AAC) can introduce clipping even if the source audio is free from clipping. To prevent this you have to attenuate the source audio. But how much attenuation is needed? This is where No Clip Technology will help. It will encode and on-the-fly decode and analyse the decoded audio. It then adjusts the pre-encoder attenuation by the correct amount to prevent clipping.

If you want all tracks of an album to receive the same attenuation the enable Album Mode.

File Naming with Pattern (Pro Version Only)

In the settings of DDP Creator Pro, you also have the option to enter a text pattern to use for the exported file names. When using this function, you may add a string of text (such as the performer of the project) and it will be automatically inserted into the file name of all exported files.

Specific fields that can be used include:

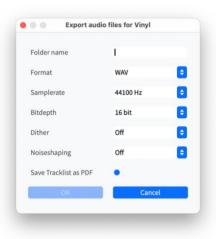
- Track
- Title
- Performer
- Composer
- Songwriter

- Arranger
- ISRC
- CD Title
- Performer
- MCN

For example, if the pattern is "%title%-%performer%" then the filenames will become "My song1-Dan" etc.

Vinyl (Pro version only)

Selecting "Vinyl" exports the current project to two audio files, one for each side of the vinyl project. A dialog box will appear, offering the option of exporting the project's audio files as .wav, .aif or .flac files.



You can output 24 and 32 bit files using the dither / noise shaping options.

The output sample rate can be set to 44.1, 48, 88.2 or 96 KHz.

Vinyl export is only available if the project is in "vinyl mode". You can set your project in vinyl mode by just selecting one of the indexes in the main table as the start of the B side. Click right on the row and select "Set start of B Side".

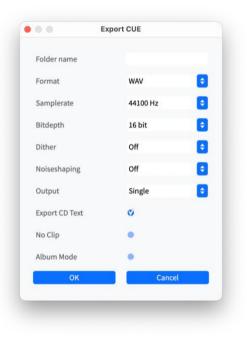
In vinyl mode a stereo phase correlation meter will appear on the main screen. This meter shows the phase correlation between the left and right channel, from out of phase to fully correlated.

CUE Sheet

Selecting "Cue Sheet" exports the current project to a CUE Sheet (.cue) file. All indexes and CD Text entries contained in the project are preserved.

You will be prompted to enter a filename for the exported .cue file, as well as the accompanying .wav file. This function ensures compatibility with other software that can import CUE Sheet files.

- You can select between way, aiff, flac, and bin file formats for the exported cue.
- (Pro Version Only): You can choose the output sample rate. Selecting "As source" will use the original sample rate for each file (Split)
- (Pro Version Only): Dithering and noise shaping can be separately turned on/off during the export process
- CD Text can be exported during the process.
- (Pro Version Only): You can use No Clip Technology when encoding .mp3 files.
- The global "Image generation" setting also applies here to the export cue function.



Batch Processor (Pro version only)

By selecting "Batch Processor," you can export the current project to different formats and loudness levels all at once. This depends on the batch recipe you set up.

Start a new recipe by clicking the + button. A dialog will open where you can enter all information for a step in the batch recipe.

Folder name	1			
+				
5	Scapes DDP 4416			
5 Scapes Files 9624				
5 Scape	es Vinyl 4424 -18.0 LUFS			

Item name	teshort%%bitdepthshort%
Туре	DDP 【
Format	BIN
Samplerate	44100 Hz
Bitdepth	
Dither	16 bit Off
Noiseshaping	Off
Output	Single
Export pauses	ଷ
Export CD Text	ø
No Clip	•
Album Mode	•
Password	
Loudness target	-18.0
ОК	Delete

The Item name is the name for the batch item. It will be used as the name for the output folder of this batch item during export. You can enter a name or a pattern. A pattern allows you to insert project data in the item name. The options are: %type%, %format%, %samplerate%, %samplerateshort%, %bitdepth%, %bitdepthshort%, %output%, %target%, %date%, %time%, %title%, %performer% and %project%. Example: %type% %format% %samplerateshort%%bitdepthshort% gives "Vinyl Wav 9624".

The other settings are the same as in the export dialogs for DDP, Files, Vinyl and CUE. The only exception is the Loudness target setting. This allows for setting a loudness target for each batch item independent from each other. If you want the project loudness then just untick the toggle switch.

It is possible to choose Vinyl as batch item type, but make sure to set the project in vinyl mode before exporting the project.

After all batch items are ready enter a folder name at the top of the dialog as the main export folder and click the Ok button. The batch export will start exporting the items in the various folders in the main export folder.

Audio CD

Selecting "Audio CD" will burn a Red Book compatible CD from the current project, using the optical media drive on your computer. All indexes and CD Text entries of the current project are preserved.

- The Device field allows you to select which optical drive to use for the burn process, as well as eject the inserted media.
- The status field displays the current status of the burn process
- The progress bar shows a visual indication of the completion of the burn process, measured in percentage completed
- Write speed can be manually selected
- Check the "use burnproof" option if you wish to insure that the drive's buffers are used to protect against burn errors
- Check the "Leave Audio Session Open" option if you wish to add more audio racks to the CD at a later time
- Check the "Fast Erase" option if you wish to re-use a re-writable disc
- (Pro Version Only): Dither and Noise Shaping options are available

Device		/-		
(A:) - HL-DT-ST,	DVDRW GX40N	vRQ00 (0	:0:0)	
Status			Eject	Close
79 min free (a b	olank disc)			
Progress				
0				
Write Speed	0.0 x	Buffer		
Elapsed Time	00:00:00	Remaini	ing Time	00:00:00
Leave audio	session open	Speed	10x (176	4Kb/sec) <mark> </mark>
🍯 Fast erase			Era	se
Start			Ex	it

Note that if DDP Creator is run on a machine without an optical drive installed, the burn menu will be "grayed out".

Tools Menu

DDP Creator's Tools menu offers miscellaneous tools that deal with assorted functions of the program. It contains the following functions:

Verify CD Project

When "Verify CD Project" is selected, the currently loaded project is tested against a number of Compact Disc Red Book format rules. The following specific rules are checked:

- The project's MCN code must have the proper format
- The first pre-gap in the project must have a duration greater than two seconds
- The maximum length of the project must not exceed 80 minutes in length
- The track numbers lie between 1 and 99
- Every track must have an index point 1
- The index numbers for a track lie between 0 and 99
- Every audio track must have a duration that is greater than 4 seconds
- CD Text data on an index point other than 1 is not allowed
- Index points with a length of 0 seconds are not allowed
- ISRC codes must have the proper format
- The ISRC code is only valid on the first index entry for each track
- CD Text may only contain ISO 8859-1 character(s)
- Ensure the index pointing to a file is doesn't exceed the file length. When an index points to a file, the index duration must be shorter than the file length to prevent running out of data.

Even if you do not manually select the "Check Project" function, this test is automatically started before any export functions are done, or a PQ Sheet is printed. If any of the above criteria is not met, an error is shown. Non-critical errors have the option of being ignored.

In vinyl mode this option will show as "Verify Vinyl Project", verifying the most basic rules for a vinyl project.

Verify Checksums

Selecting "Verify Checksums" opens up a dialog box, where you are prompted to open a checksum file (with extension .md5).

This function tests the integrity of a DDP file set, by comparing its actual checksum against the checksum found in the checksum file. This way, you can check if anything has gone wrong during transferring a DDP file.

Load CD Text

Selecting "Load CD Text" loads a binary CD Text file, and maps the data to the CD Text fields of the currently loaded project.

In DDP Creator Pro, you can also load a standard .csv file that contains CD Text data.

In this .csv file, the first line, if available, sets the order of CD text types for the rest of the file. If this line is not available then a default order will be used. The rest of the file has the text separated with a comma (,) character.

Note: If you have commas in the text, make sure to use quotes around the text, such as "The world, according to you"

Only available fields will be overwritten, as shown here:

	A	В	С	D	E	F	G
1	Performer	Title	ISRC				
2	Various Artists	Monster 2012 (Sean Finn Remix Edit)	DET191104015				
3	Loona	Policia (Radio Edit)	FRUM71201385				
4	Buranovskie Babushki	Party For Everybody (Radio Edit)	DEL711260030				
5	Right Said Fred	Sxaholic (Main Edit)	DEHM81200139				
6							
7							

Save CD Text

Selecting "Save CD Text" saves a binary CD Text file, created from the CD Text data in the currently loaded project.

Burn Folder to Data CD/DVD

Selecting "Burn Folder to Data CD/DVD" allows you to burn a data CD or DVD (as opposed to burning an audio CD).

This function can be useful when sending images to replicators that do not accept digital transfer of computer files; in this case, you can send them a data CD/DVD of the project folder, which they can then load onto their computers.

This workflow is still more secure than using a physical CD master, since the data on the burned CD/DVD will not copy to/from the CD/DVD, unless each and every byte of data is preserved and able to be copied accurately.

Upload Folder to ...

Selecting "Upload Folder to " allows you to upload the contents of a folder, such as a DDP image, directly to your duplication plant or share it with your client. The default cloudservice is FTP. Other services are Google Drive, Amazon S3 and Microsoft OneDrive (**Pro Version Only**).

The DDP image should be present in the folder, before you invoke the transfer. You will be asked to select a folder that contains the DDP image. Please note that ALL files in this directory will be uploaded, including sub-folders. You will be asked if you want to have the folder zipped before uploading, except for AmazonS3, here the folder will always be zipped. If possible you will also be asked if you want to share the files on the server, depending on the chosen cloudservice.

If any interruptions occur in the upload process, the upload will resume automatically when allowed to do so.

You will be asked if you want the uploaded data to be verified after uploading. If you select "yes", then the data will be downloaded, once the upload is completed, and compared with the original data. This will ensure a perfect, accurate upload.

The specific cloudservice settings can be set in the Settings dialog in the Tools menu.

Upload last Export to ...

The same as the previous option, except that the folder to upload is the last exported folder. This can be useful if you want to verify the exported master before uploading.

Check for Updates

Selecting the "check for updates" function will check if there are any newer updates of DDP Creator.

- If you are currently running the latest version and no updates are available, a message will be displayed that no new updates are available.
- If a new update is available, a dialog box is shown with the details about the new release. It will ask if you want to download and install the update. Choosing "Yes" will automatically do so.

Audio Settings

Audio Settings: In this dialog box, you can select the audio playback device on your computer that is used to listen to playback of the project, as well as its settings.

Settings

Selecting the "settings" function brings up the settings screen, where assorted global settings for DDP Creator can be adjusted. For more details, see the "Settings" section of this manual.

Reset Factory Settings

Selecting the this function resets all settings to the default settings.

Create ISO file (DDP Creator Pro Only)

Selecting "Creates ISO file" creates a standard ISO 9660 .iso file from a folder. The resulting .iso file can be added to the project as a data session, using the <u>Add Track</u> function. You will be asked if you want to add the file to the current project, if possible.

Extract ISO file (DDP Creator Pro Only)

Selecting "Extract ISO file" extracts the contents of an .iso file to a folder.

Measure Loudness and Peak Levels (DDP Creator Pro Only)

Selecting "Measure Loudness" measures the loudness of each index, using the ITU-R BS.1770-2 / EBU R128 algorithm, as well as the peak level in each channel.

After the measurement is completed, the loudness for each index, (using LUFS units), can be found in the "Loudness" column on the main workspace table. The peak level is shown in the Peak L and R columns (using dBFS).

Loudness Normalization (DDP Creator Pro Only)

Selecting "Loudness Normalization" measures the loudness of each index, using the ITU-R BS.1770-2 / EBU R128 algorithm. After the measurement is completed, the loudness (measured in LUFS) for each index can be found in the Loudness column on the main workspace table.

After the measurement is completed the lowest found value is presented. In the following dialog window, a target value can be selected, with the aforementioned lowest found value as the high limit. In practice, this means that all tracks can be normalized, using the loudness of the quietest track, and will be attenuated with the gain setting. The resulting loudness is the found loudness + the gain. The EBU R128 recommends a target loudness of -23 LUFS.

Settings Menu

The settings dialog box allows you to set various program settings that are used to customize the behavior of DDP Creator.

These settings are not saved with a specific project, but are instead saved as global program settings, that are preserved upon re-launch of the program, and are applied to every new project that is created.

Pre-roll time (535 sec)	10	Cloud Service	FTP	¢
Index offset (020 frames)	10	Host	ftpserver1	
Default pause (0300 frames, 0 = disable	:) 150	Username	user1	
Filename pattern	%track%_%title%	Password	*******	ŧ
Show tooltips	Yes 🗘	Remote path	/home	
Auto verify checksums	Yes ᅌ	Ask for upload after export	Yes	¢
ISRC auto increment value	1	Ask for zip files before upload	Yes	¢
Playback dither	Off 🔶	Encoder bitrate	256 kbps	¢
Playback noiseshaping	Off 🔶	Encoder bitrate mode (MP3)	CBR	¢
Playback bitdepth	Off 🔶	Loudness scale	EBU +9 Absolute	¢
Playback SRC quality	Best ᅌ	Loudness time scale	Momentary	¢
Check for updates	Yes 🗧	True peak	Yes	¢
	ок	Cancel		

Pre-Roll Time: This setting is used during the playback of a transition between two tracks, and defines how much time at the end of the first track will be played before the transition, and how much time of the second track will be played into. You can enter a pre-roll time between 5 and 35 seconds.

Index Offset: This defines the number of frames that are added between the first index and the actual audio of a newly added track.

For more information please see the explanation of the offset in the <u>workspace</u>. You can enter an offset value between 0 and 20 frames.

Default Pause: This defines the length of a pre-gap, measured in frames, that is automatically added when a track is added. If the default pause setting is 0, then no pre-gap is added.

For more information please see the explanation of <u>Adding tracks</u> to the workspace. You can enter a default pause value between 0 and 300 frames.

Filename Pattern (Pro Version Only): This setting controls the filename when exporting audio files with a filename pattern.

The options are: track, title, performer, composer, songwriter, arranger, isrc, cd title, cd performer and mcn.

For example, a track configured as "%track%-%title%" would yield the title 01-Hello Darling.wav.");

Show Tool Tips This setting turns the "tool tips" function on or off. When tool tips are turned on, hovering over a control in the interface will result in a small pop-up display, which explains the control's function.

Auto Verify Checksums: This selects whether automatic checksum verification is performed after importing a DDP image.

ISRC Auto Increment Value: This setting determines the time amount that will be used as the increment value, when the "Auto Incrementing ISRC values" is selected.

Playback Dither (Pro Version Only): This selects the type of dither that will be used, when exporting tracks with a gain other than zero, or tracks that have been imported containing a bit-depth other than 16-bit.

The dither type can be set to any of the three following types:

- "Off": Noise Shaping can still be applied
- TPDF (Triangular Probability Density Function): When used without noise shaping, the result is flat TPDF.
- HP TPDF. : The noise is shifted a bit to the higher frequencies, above about 2 kHz.

Playback Noise shaping (Pro Version Only): This setting determines the type of noise shaping that occurs when a track is dithered from a higher bit-rate down to 16-bit. Choices include:

- Off
- Curve 1: 5th order noise shaping filter following an improved E-weighted response
- Curve 2: 9th order noise shaping filter following an improved E-weighted response
- Curve 3: 9th order noise shaping filter following an F-weighted response

Playback Bit-Depth (Pro Version Only): This setting determines what bit-depth is used during playback of the currently loaded project. Choices include:

- Off
- 16-bit
- 20-bit

Playback SRC quality: This setting selects the quality of the sample rate conversion during playback:

- Best
- Medium
- Fastest

The quality of the file rendering is NOT affected by this setting and always uses the highest quality conversion.

Check for Updates: This setting connects to the Sonoris servers and checks if there is an update available to the software. If one is available, it offers to automatically download the new update.

Cloudservice: This setting selects the cloudservice that the DDP Creator will use to upload your master files to. The default cloudservice is FTP. Other services are Google Drive, Amazon S3 and Microsoft OneDrive (**Pro Version Only**). When choosing Google Drive or Microsoft OneDrive, a button will appear that can be clicked to start the authorization process. After a successful authorization the button will turn green.



The FTP and Amazon S3 services require special settings:

FTP

Host: This setting is used to configure the hostname of the remote FTP server used Username: Configures the username of your account at the remote FTP server Password: Configures the password of your account at the remote FTP server Remote path: Determines the upload path at the remote FTP server

Amazon S3

Access key: this can be found in your Amazon Webservices account Secret access key: this can be found in your Amazon Webservices account

Bucket: this can be found in your Amazon Webservices account

Region code: this can be found in your Amazon Webservices account

Ask for upload after export: This selects whether a dialog box is shown after export that asks if you want to automatically upload the exported files to the selected cloudservice.

Ask for zip files before upload: This selects whether a dialog box is shown before upload that asks if you want to zip the files first.

Encoder Bit Rate (Pro Version Only): Selects the bitrate when exporting tracks to MP3 or AAC. Choices include:

- 128 Kbit/s
- 192 Kbit/s
- 256 Kbit/s
- 320 kbps

Encoder Bit Rate Mode (MP3) (Pro Version Only): Selects the encoder mode used when exporting to MP3. Choices include:

- Variable Bit Rate (VBR)
- Constant Bit Rate (CBR
- Average Bit Rate (ABR)

Loudness Scale: This selects the scale for the loudness meters. The choices include the EBU R128 scale as well as other relative scales.

Loudness Time Scale: Selects the time scale for loudness measurement compliant with EBU R128. Choices include:

- Momentary
- Short-term

True Peak: This setting toggles between True Peak (compliant with EBU R 128 / ITU-R BS.1770) and Peak Sample measurement. In True Peak mode the peak meters show intersample peaks. The maximum permitted peak level is -1 dBTP. In Peak Sample mode the peak meters show non-oversampled peaks and the maximum permitted peak level is 0 dB.

Help Menu

Help

Selecting the "Help" menu will display this user manual as a standard .pdf file.

About

Selecting the "About" menu displays an about box with assorted information about copyright, the current version of DDP Creator, and user license information.

DDP Creator Key Commands

Ctrl (Cmdr.) +N	New Project	Clear current project
Ctrl (Cmd) +O	Open Project	Open a new project from disk
Ctrl (Cmd) +S	Save project	Save current project to disk
Ctrl (Cmd) +P	Save PQ Sheet	Save a PQ sheet to a .pdf file
F1	Help	Displays the DDP Creator help file
Space	Play Track	Play the selected track
Num +	Increment Index	Increment the selected index entry
Num -	Decrement Index	Decrement the selected index entry
Up		Go to previous index or track
Down		Go to next index or track

Note: Ctrl (Control) key is used for Microsoft Windows, while Cmd (Command) key is used for Apple OS X.

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