What's New in Directory Opus 10?

File Management

Grouping

File displays can now be *grouped* as well as sorted. You can group by any currently displayed column, and groups can be collapsed and expanded. Grouping is controlled the same way as sorting (via Folder Options, the column header context menu, etc) and via the **Set GROUPBY** and **Set GROUPREVERSE** commands.

Grouping can also be accessed by ALT-clicking the column header; ALT-click a column to group by that column, ALT-click again to reverse the group direction, and SHIFT-ALT-click to turn grouping off.

Native Display of Virtual Folders

Opus 10 provides "native display" of some virtual folders than in Opus 9 were displayed by hosting the Explorer view. **Libraries** (in Windows 7), the **Computer** (My Computer in XP), the **Desktop** and **CD Burning** folders are now displayed natively. This means that full Opus functionality is now available in these folders.

The *Virtual Folders* page in Preferences has been expanded to control these folders. You can opt to turn off the native display of **Computer** and **Desktop** if desired, in which case the old Opus 9 behaviour will be used.

For **Desktop**, you can configure which child items are visible – if everything is turned off here, only real files and folders will be displayed (the same effect as browsing to the physical Desktop folder rather than the real one).

For **Computer** you can choose to enable the *Files stored on This Computer* section (emulates Explorer's behaviour in Windows XP) and to enable the display of empty disk drives (by default these are hidden).

CD / DVD Burning Support

Opus 10 provides more integrated support for CD burning using the Windows CD burning sub-system. When you browse to a writable CD, Opus now separates the view into two groups (*files on the disc*, *files ready to be burned to the disc*) like Windows Explorer does. Opus also correctly handles the formatting of blank CDs and will prompt you to initiate burning when appropriate. Opus also correctly detects discs formatted using LiveFS and will treat these as normal writeable folders.

Non-Modal Error and Warning Messages

File Displays have a new non-modal error / warning system that is used to display messages directly in the Lister rather than via a popup dialog. For example, trying to read an empty disk drive no longer results in an "Insert disc" popup, instead displaying a non-intrusive message at the top of the file display.

The new message system is also used for the prompt to indicate files are waiting to be burned to CD, the prompt when automatic loading of certain folder types is blocked, and several other situations.

Folder Name Localization

Opus 10 now fully supports localization of folder names in both the File Display, Folder Tree and Breadcrumbs bar under Vista and Windows 7. There is an option in Preferences to disable this ability and display the real underlying names if desired.

Enhancements to Details and Power Modes

There is a new selection mode available in Details and Power mode known as *Full column selection*. This is a hybrid of full-row selection and the original filename-only selection – in this mode, the full width of the name column (including any whitespace to the right of the filename) is used as the selection hotspot.

The spacing between lines can now be configured, and there is an additional gridline option of alternating solid colored bars. The opacity of gridlines can also be configured.

Wildcard Folder Formats

The Folder Formats system now lets you create a format that uses a wildcard path rather than for a specific folder. Use the *Add* drop-down on the Folder Formats page in Preferences to select *Wildcard Path Format*, and then enter the wildcard path in the field at the top of the *Edit Format* dialog. You can use either standard Opus wildcards, or regular expressions to specify the path wildcard. The format will be used for all paths that match the wildcard, provided they do not have their own path-specific format defined.

Folder Thumbnails

Under Windows Vista and Windows 7, Opus can now use the shell to generate thumbnails for folders. This results in the new 3d-perspective style folder thumbnails rather than the old "flat" style that Opus itself can display.

Folder Tabs

There is a new item on the folder tab context menu to split all tabs from the selected tab to either a dual display or to a new window.

The file display buttons (the little Forward / Back / Up / etc. buttons in the file display header) will now open a new tab if the ALT key is held down when they are clicked (they also support CTRL for dual-display and SHIFT for new window).

Folder tab close buttons have a new "large" option. (There's an option to use the old "small" close buttons instead if you prefer.)

Index and Range Selection

There is a new **Index** column that can be added to file displays and gives the ability to select files by index and range. When the Index column is displayed, pressing the **#** key in the file display will open the Find-As-You-Type field letting you perform index or range selection (e.g. #30 to select file 30, #5-10,15-20 to select files 5 through 10 and 15 through 20, etc.)

Inline Progress and Busy Indicators

When reading a folder takes more than a few seconds, you will now see the new inline progress display rather than the old simple "busy" indicator. Depending on the operation, this might display an actual progress indicator (e.g. opening certain types of archive files will show an accurate progress bar), or a generic "marquee" display.

There is also a new busy indicator that appears in the Lister status bar (at the far-left by default, but this can be repositioned by editing the status-bar in Preferences). This indicates that a background process is operating. For example, you may see this indicator while establishing an FTP connection, performing a Windows Search or reading from an archive. You can click the spinning indicator to see a popup list of all background processes and the Lister can still be used normally while they are working.

The background of the Breadcrumbs path field will also show a marquee-style busy indicator whenever a background process is operating.

Drag & Drop

Drag & drop support has been improved in a number of ways. The action that occurs when dragging and dropping to various locations is now more consistent (and governed by the settings in File Types). The cursor shown when dragging will now indicate more accurately the action that will take place – previously the cursor only indicated the qualifier keys that were held down, rather than the default drop action.

Opus also uses the new features in Windows Vista to display a drag cursor with a tooltip indicating the action that will take place. (On older Windows versions, Opus still simulates this using its own tooltip where possible.)

File and Folder Labels

File and Folder Labels allows you to create "labels", consisting of a named set of color and font style attributes, and then apply these to arbitrary files and folders. The *File and Folder Labels* page in Preferences has replaced the old Folder Colors page, as well as the individual File type color settings in the File Types dialog.

A label can be set to override the text and background colors (both foreground and background) of item names, as well as the icon color of a labelled file or folder. Additionally labels can apply bold, italics or underscoring to the item name. You can create as many labels as you like.

The Preferences page also displays a list of the files and folders that have been labelled. You can also assign labels based on wildcards – wildcard labels can apply to files, folders or both, and you can match on the full pathname or just the filename. For example, you could apply a label to all text files by entering *.txt as the wildcard pattern.

You can also use the **Properties SETLABEL** command to assign a label to selected files (add it to the All Files and Folders context menu for easy access).

Archives

7-Zip Plugin

A new plugin that integrates the functionality of 7-Zip is supplied with Directory Opus 10. This supplements the in-built Zip support with the following additional features:

- Support for key 7-Zip (.7z) archive format.
- Support for additional archive formats (.arj, .bz2, .cab, .gz, .lzh, .tar, .z, .zipx).
- Support for directly entering and modifying .tar.gz archives and similar (the outer archive is de-compressed and re-compressed as needed).
- Support for disc images (.iso, .wim, .vfs, etc.).
- Support for reading RAR archives (replaces the original Opus RAR plugin).
- Support for writing/creating RAR archives if WinRAR is installed.
- Does not require the 7-Zip program to be installed.

Enhanced Zip Support

The in-built Zip support has been greatly enhanced in Directory Opus 10. Improvements include:

- Unicode support (supports Unicode filenames in Zip files).
- AES support (enhanced encryption).
- Large file support (ZIP64 – supports archives > 4GB in size).
- NTFS timestamp support (file timestamps are stored relative to UTC, so that time zone information can be preserved when extracted. This means the old "dopus-tz" time zone information stored in the Zip file comment is no longer needed).
- Support for editing of Zip file comments (now that "dopus-tz" no longer overwrites it).
- The ability to create Self-Extracting Zip files, including user-configurable icon, images and documentation.
- Native x64 support (on 64-bit systems, Opus no longer needs a 32-bit COM proxy to support Zip).
- Support for multi-volume archives (reading and writing).
- Significant speed increases in reading Zip file contents and extracting from Zip files.
- The option to include full paths when zipping.

With the addition of the 7-zip plugin, most references to Zip and Zip files in the program have been replaced with the more general term *Archives*. For example, the "Directory Opus Zip" context menu is now called "Directory Opus Archives". Opus supports creation and extraction of all supported archiving formats from the context menu, in both Opus and Explorer. There is a new Preferences page that controls which formats are shown in the context menu.

There is also a new Archives filetype group that's created by default, and is automatically updated whenever you enable or disable archive formats in Preferences. You can use this group to easily add your own context menus, etc, to the archive formats that Opus supports.

Searching and Filtering

Windows Search

Opus now supports integrated Windows Search (or Windows Desktop Search under XP). This lets you use the functionality provided by the Windows Search system, including indexed search and Advanced Query Syntax.

Windows Search can be accessed in three ways:

- A toolbar field similar to Explorer
- The Find-As-You-Type field
- Queries stored in a File Collection

The Search field can be added to a toolbar from Customise (it will also be in the default configuration). With this field on your toolbar, to perform a search of the current folder all you need to do is start typing. Search results are displayed in a File Collection and so you can use the full functionality of Opus on matching files.

Note that the File Collection used for this is **not** the same as is used by the Opus Find tool; instead a "temporary" File Collection is created to display the results for the current folder, and this collection will disappear again when not needed. You can edit the folder format used for Search Results collections from the *Folder Formats* page in Preferences.

To search from the Find-As-You-Type field, simply press the = (equals) key in the File Display, and start type. The same syntax can be used as in the Search field – you can either enter keyboards to search for, or use Advanced Query Syntax to specify the query.

You can also run a query programmatically using the **QUERY** argument to the **Find** command.

Stored Queries

You can also store Windows Search queries in a File Collection for later or repeated use. The easiest way to do this is to run a query using either the toolbar field or Find-As-You-Type field. When the results collection appears, right-click the File Display background (or right-click the Search Results item in the tree), and choose *Save as Stored Query*. This will create a new (permanent) File Collection in the Stored Queries File Collections folder.

Browsing to a Stored Query collection by default shows you the saved results from the last time the query was run. To re-run the query and refresh the results, simply press F5 to refresh the folder display as normal. If you edit the collection properties (right-click on its item in the tree and select Properties), you can also choose to have the results refreshed automatically. With this option enabled, the query will be re-run whenever you browse to the collection.

You can also edit the query from the Properties dialog, and change the folders that are searched (Stored Queries allow you to define multiple folders to be searched).

Directory Opus Find

The old standalone Find window has been removed; Opus Find is now exclusively accessed via the Utility Panel, and results are now exclusively displayed in File Collections.

The Find Panel has a new **Refine** option that lets you refine the results of an existing search. If you use the Find Panel to perform a search as normal, and then edit the search parameters and click the Refine button, the new search will be run on the results of the previous search.

It is now possible to use the Opus Find tool to search File Collections and Libraries.

A number of new Find clauses have been added, including:

- **Type** matching for Junctions, Links and Shortcuts
- **Target** to search based on the target of a shortcut
- **Codec** and **Release date** for Music files
- **Full path** to search based on the full path (including filename)
- **Folder sizes** (**Empty folders** can now be searched for by combining a **Type [Folders Only]** clause with a **Size is equal to 0 bytes** clause).
- **Label** searches for labels assigned with the new File / Folder Label system
- **Tags**

There is a new *Filter Bar* that can be displayed at the bottom of the File Display that lets you quickly and easily filter the files displayed in that folder. Note that this does **not** affect the filters that can be defined through Folder Options, or the new global hide filters – it simply lets you temporarily filter the current folder.

The Filter Bar appears when you press the * key in the Lister– so to filter the current display, simply press * and immediately type your filter. Note that in Opus 9 this used to display the Find-As-You-Type field – this can still be used for Filtering if desired, but the Filter Bar provides a far better interface. You can change this hotkey through Preferences.

The filter bar displays statistics related to the currently entered filter – the number of files and folders **shown** by the current filter, as well as the number of files and folders **hidden** by the current filter. Again, this only relates to the filter entered into the Filter Bar and does not include any files or folders hidden by Folder Format or global filters – this information is provided in the status bar as before.

The icons displayed alongside these counts can be clicked to quickly show or reveal all files or folders. You can also click the filter icon to the left of the filter text field to quickly disable and enable the filter without clearing it. The filter field also has a drop-down that lets you select one or more file types from the current folder to filter on.

In Flat View, folders are normally not subject to filters, but the Filter Bar has a checkbox that can temporarily enable filtering of folders when in Flat View.

By default the Filter Bar will appear when you press * and remain while there is a filter in force, whether it is active or not. The *Filter Bar* page in Preferences lets you configure it to always be visible, or to only appear when invoked by the hotkey and to disappear again once the filter has been entered. There is also an option to prevent the filter from being cleared automatically when changing folders. You can quickly clear the filter manually by pressing the Escape key.

The Filter Bar can be controlled using the **Set QUICKFILTER** command (with the optional **QUICKFILTERFLAGS** and **QUICKFILTERCLEAR** arguments):

- **Set QUICKFILTER** by itself opens the Filter Bar and gives it focus
- **Set QUICKFILTER <pattern>** sets the current filter pattern – acts as a toggle if that pattern is already set
- **Set QUICKFILTERFLAGS** lets you toggle on/off the hide/show files/folders options
- **Set QUICKFILTERCLEAR** clears the filter
- **Set QUICKFILTER=!prev** restores the previous filter once it has been cleared.

Global Filters

The *Folder Display* Preferences page now has several options to configure global hide filters. These are filters that are applied globally, in all folders, and allow you to hide files or folders that you know you never want to see anywhere. For example, *desktop.ini* and *thumbs.db* are files that occur commonly in Windows, and being able to specify a global filter means you do not need to configure Folder Formats in order to hide them.

You can specify global filters using wildcard patterns for both files and folders. There is also a global option to hide hidden files, and one to hide operating system files.

These filtering options can also be controlled using the **Set GLOBALHIDEFILENAME**, **GLOBALHIDEFOLDERS**, **GLOBALHIDEFILTER** and **GLOBALHIDEHIDDEN** commands.

File Copying

Copy Queue

Multiple file copy operations can now be queued to execute sequentially rather than in parallel. The implementation of the queue is "job" based. That is to say, when you select one or more files and click the Copy button, or use Copy and Paste, that initiates a copy "job". Previously if you initiated a new job when the previous job was still in progress, the new job would execute concurrently. In Opus 10, jobs can now be queued to wait until a previous job is complete.

Queuing can either take place automatically, when needed (the default option), or you can create queues manually using arguments to the **Copy** command (or **Clipboard COPY** command).

There are two options in the *Copying Files* Preferences page that control automatic mode. When enabled, queues are established automatically using the following rules:

- If the copy originates from a removable disc, a CD/DVD or an FTP site – the queue is based on the source folder
- If the copy is to a removable disc, a CD/DVD or an FTP site – the queue is based on the destination folder
- If the copy is to a fixed (local) hard disk, the queue is based on the physical disk number (so multiple partitions on the one drive will use the same queue)
- For all other copy operations, the queue is based on both the source and destination

When a new copy job is started that matches an existing job (according to the above rules), the progress dialog attached to the first job will expand to indicate that a job is queued. The status line in the progress dialog shows the number of jobs that are queued, and has a small button that pops open a list of queued jobs. From this list you can start jobs immediately or cancel them before they begin. You can also rearrange the queued job list by moving jobs to the top of the queue.

By default when a job is queued, the existing progress dialog will display a confirmation dialog that gives you the option to bypass the queue and run the job immediately. This confirmation can be disabled if desired, either for the life of the queue (using the checkbox in the dialog), or complete via the option in Preferences. When a Progress Dialog has multiple jobs queued, the clicking the Abort button will display a prompt asking if you want to cancel only the current job or all jobs.

Using the **Copy QUEUE** command you can initiate queuing manually (or disable it) overriding the automatic mode. Using the **QUEUE** argument you can create a queue with a specified name (the name will then be shown in the title bar of the progress dialog). For example, **Copy QUEUE=MyQueue** would copy selected files using the queue "MyQueue". If no name is specified for the **QUEUE** argument then a queue is automatically chosen using the rules above.

The **QUEUE** argument can also take the parameter **none** which disables queuing, **quiet** which disables the confirmation dialog, and the **shift** parameter, which lets you specify alternative behaviour based on whether the SHIFT key is held down or not. For example, the command **Copy QUEUE=quiet,shift,none** would by default copy using an automatic queue, without a confirmation dialog, but would bypass the queue completely if the SHIFT key was held down.

Unattended Operations

There is a new checkbox in the Copy progress dialog to enable *Unattended operation*. When this option is checked, no error or confirmation dialogs will be shown for the duration of the copy – instead, any errors will be silently logged and you can review these, and retry the failed operations, at the end of the procedure. The **Copy** command has a new **UNATTENDED** argument to control this.

Filtering

The Copy Filter (and Delete Filter) options are now local to the current Lister rather than being global Preferences settings. These are configured using the **Set COPYFILTER** and **Set DELILTER** commands, which are in default Settings menu.

Automatically Select Copied Files

There is a new option in *Copying Files* Preferences to automatically select copied files. With this option enabled, new files that are copied (or pasted) to a folder will be automatically selected to make them more visible. The file display will also scroll automatically to reveal the first of the new files.

Ask Before Merging Folders

There is a new option in the *Copying Files* Preferences page to ask before merging the contents of existing folders. With this option off, a copy of a folder over an existing one will silently merge the contents of the two folders (unless the names of files within those folders clash). With this option enabled, Opus will prompt you to make sure you really want to merge the two folders.

More Control over File Counting

There is a new option in Preferences to control the counting of sub-folder contents before copying or deleting, that lets you can selectively enable or disable counting based on the drive type. It is now also possible to skip file counting while it is happening using the **Skip** button in the progress dialog.

Progress Dialogs

Windows 7 Taskbar Progress

Progress dialogs (e.g. when copying files) now display progress indicators on the Windows 7 taskbar. A progress bar is displayed behind the taskbar icon and its colour changes to indicate operations which are paused or displaying errors. Progress bars in progress dialogs also change colour similarly.

All Features in a Single Compact Design

Progress dialogs have a new design which combines the Pause button and timer/speed-counter of the old "full" mode while maintaining a compact size similar to the old "basic" mode. The choice of mode is gone and instead the dialog always displays as much information as it has available.

Improved Time and Speed Counters

The time and speed counters now work in more situations and should be more accurate in some of the situations they already worked in (e.g. operations involving thousands of tiny files).

Avoid Accidental Button Pushes

Progress dialogs no longer have a button selected by default, so if you accidentally push space when they get focus you won't do anything. (You can still push the tab key or use shortcuts to control the progress dialog via the keyboard.)

Better Avoidance of Other Dialogs

Progress dialogs now do a better job of not obscuring other dialogs. For example, if you use {dlgstring} in a button to prompt for input then there used to be situations where, if the timing was right, a progress dialog could appear on top of the prompt; it will now appear under the prompt.

Prevent Computer from Sleeping

Operations which display a progress dialog (e.g. file copying) now prevent the computer from going to sleep while they are active. (This only applies when a progress dialog is displayed and while progress is actually being made; stuck operations will not keep the machine on. The computer will still be allowed to sleep if the battery level becomes critical during the operation.)

Metadata

Metadata Editing

There is a new Metadata Panel that can be displayed in the Lister. This displays and allows editing of metadata for many different file formats (and more will be added in the future). The Metadata editor can also be accessed from a popup dialog.

- Supports EXIF / XMP, MP3/WMA/WMA, WMV/AVI, Office documents and PDF files.
- Multiple files can be edited simultaneously (e.g. you can set the Artist and Album Title, and automatically number multiple MP3 tracks in one operation).
- Tags, Commands and Ratings can be edited for all types of file.
- Full support for programmatic setting of metadata via the command line.

Use the **Set METAPANE** command to display the Metadata Panel. When the Metadata Panel is visible, you can select one or more files, and their combined attributes will be calculated and displayed in the panel. The attributes available for editing will vary based on the type of file, and if files of multiple types are selected together, only the common attributes will be shown.

Use the fields in the Metadata Panel to edit the metadata for the selected files, and then click the *Apply* link at the top of the panel to make changes permanent. You can also use the *Cancel* link to undo any changes.

When multiple files are selected, and their current values for various attributes clash, the panel will display *Multiple values* to indicate this. If you make changes to these attributes, the new values you supply will be set in all currently selected files.

You can copy tags from one file to one or more others, by dragging and dropping the file, with the right mouse button, to the Metadata pane. A popup menu will let you select which information to copy.

You can use the **SetAttr META** command to make metadata changes programmatically; see the section at the end of this document for more details.

Tags and Ratings

Opus now supports Tags and Ratings for files. Where Explorer also supports these for a file type, the information is shared with Explorer – however Opus implements its own proprietary tagging system for any file types that Explorer doesn't support.

Ratings are displayed in the file display using stars similar to Explorer.

Opus now uses NTFS file comments when *descript.ion* support is turned off.

See the Commands / Metadata section of this guide for instructions on how to access and use the Metadata system.

Libraries

Opus 10 provides full support for the Windows 7 Libraries system. Opus 9 provided support for Libraries by hosting the Explorer namespace extension, but Opus 10 supports Libraries natively, which enables full Opus functionality in Libraries.

In addition, Libraries are *emulated* under Windows XP / Vista, which enables those users to also make use of the Libraries concept (although of course on those systems, Libraries will only work inside of Opus).

Libraries are accessed in Opus using the **lib://** path. Browsing to **lib://** in a Lister takes you to the root of the libraries namespace, and all libraries can be accessed from here. You can also create and delete libraries from here. The member folders of a library can be viewed and edited by right-clicking a Library and choosing Properties (same as in Explorer).

Navigation

Navigation Lock

Navigation Lock has been improved and now works with any type of folder change, rather than just double-click / parent / back like in Opus 9.

When the two file displays go out of sync the new non-modal warning system is used to alert the user of this, rather than the old method of flashing the title bars.

Auto-Select Previous Folder when you Go Up

A new option has been added to automatically select the folder you were in when you go up a level.

Option for '..' Parent Item

An option to display a **..** parent item at the top of each folder has been added. Double-clicking this item will take you to the parent folder (equivalent to clicking the Go Up button). You can also drag and drop to this item to copy/move files to the parent folder. There is an additional option to hide the **..** item when the file list is grouped, as having the **..** item appear in a group may be undesirable.

Folder Content Menus

The menus generated by the **Go FOLDERCONTENT** command now have a new selection method by default. With the new method, sub-menus will auto-expand when the mouse hovers over them – if you click an item that generates a sub-menu, it will select the actual item rather than opening the sub-menu.

The **FOLDERCONTENT** argument can take the new **dblclickmenu** parameter which changes this behaviour to expand on both hover and single-click, and select on double-click. The **nomenusel** parameter reverts to the Opus 9 behaviour of expand on hover and single-click, with no selection possible of sub-menu items unless the **button** argument is also specified.

Items listed in Folder Content menus now display context menus when you right-click them – this behaviour can be disabled if desired using the new **nocontext** argument.

There are new **sortext**, **sortdate**, **sortsize** and **sortreverse** parameters for the **FOLDERCONTENT argument** to control sorting, and the **hideext** parameter can be used to hide file extensions.

Finally, the new **copy** and **move** parameters let you create Folder Content buttons that copy or move files into the selected folder.

Prevent Automatic Loading of Certain Folder Types

The *Prevent automatic loading* Preferences option has additional options to control which types of folders will not be loaded automatically (e.g. when Opus first runs, or a Lister Layout is opened). Enhancements in Opus have improved the performance of this system and therefore setting this for network drives in particular can result in dramatically increased Lister performance when using slow networks. Note that the new non-modal warning system is now used to inform you that a folder was not loaded, and gives you the option of reading it and of editing the Preferences settings.

Folder Tree

Improved Performance with Networks

The Folder Tree has greatly improved performance with network folders. Opus will no longer attempt to fully populate the contents of network folders (nor the list of computers on your network) when you browse to them – instead, the current folder (and its ancestors) will be added to the Tree and the rest of the branch will remain unpopulated until you manually expand it. This behaviour can be configured in Preferences - you can choose to extend the "no auto-population" rule to all folders (not just network folders), or disable it if desired.

Many other improvements have been made to try to improve network performance. For example, dragging files over network folders in the tree does not cause any access to the network until the file is actually dropped.

The tree now works properly with network folders even if they are not automatically enumerated (e.g. because they are hidden or the Browser service has failed to find the machine). When you navigate to a computer or network folder an item for it will be added to the tree automatically if required.

Improved Behaviour with Virtual Folders

The tree behaves better when dealing with virtual folders that also have associated "real" folders. For example, the Tree will no longer get confused between the virtual My Documents or Desktop folders and their real counterparts below C:\Users\...

Improved Behaviour with Hidden Folders

Previously, if a folder was hidden from the tree then the tree would never show you that folder (or anything below it), even if you navigated to it. The tree will now automatically add temporary items for folders you navigate to, even if they were previously hidden.

FTP in the Tree

The tree now supports FTP. By default, the Folder Tree shows your full FTP address book in a hierarchical structure. When you connect to an FTP site it is displayed in the tree – underneath the address book entry if appropriate and under a dynamically-created, temporary entry for the site if not.

Configuration of Tree Contents

There are extended options for hiding various folder types (e.g. empty drives) and specific folders (e.g. the libraries or user profile branches) from the tree. This, combined with the improved behaviour with hidden folders, means you can reduce clutter by hiding things you rarely use without losing the ability to navigate those things via the tree when you want to.

For example, if you configure that FTP is not shown in the tree by default and then browse to an FTP site, it will automatically appear in the tree in that window while remaining hidden elsewhere.

When the tree is set to start at a level below the Desktop, it will automatically re-root itself as needed if you browse outside that hierarchy. For example, if the tree is set to start at the Drives level, it will automatically re-root itself to the Network level if you browse to a network folder (and then return to Drives when you go back to a local disk).

Horizontal Scrolling

The Tree now supports several horizontal scrolling modes:

- "XP" mode: A horizontal scrollbar is visible and can be dragged manually. When a new item is selected the tree automatically scrolls left or right to ensure it can be seen.
- "Vista" mode: No horizontal scrollbar is visible. The tree automatically scrolls left and right in a way which tries to guess the best scroll position based on the vertical scrollbar, the mouse pointer and the current selection. (Available only on Windows Vista and above.)
- "Windows 7" mode: No horizontal scrollbar is visible and the tree never scrolls horizontally. The tree must be resized to see items off to the right.
- "Manual" mode: A horizontal scrollbar is visible and can be dragged manually. The tree never automatically scrolls left or right.

Selection Events

A new Preferences page lets you configure Folder Tree selection events, that is, what happens when you click on an item in the tree holding down a qualifier key. For example, ALT-Click can be set to open the folder in a new tab, and CTRL-Click to open in a dual display. You can also configure what happens when a folder is clicked with the middle mouse button.

Locating the Selected Item

There is a new button in the tree header (top border) that causes the tree to automatically scroll to reveal the currently selected item if it is obscured. The item will be positioned as close to the centre of the tree display as possible, and the tree will be given input focus automatically.

There is also a new option in the Tree Preferences that causes the tree to do this whenever a new branch is expanded. The currently selected item will always be kept as close to the centre of the tree display as possible.

Expanding and Collapsing Items

When using the keyboard with the tree, pressing + (plus) on an already expanded item expands all of that items' immediate children. This is similar to the existing behaviour of the * key (asterisk) which expands all an items children – the difference is that * will expand **all** children including sub-descendants, whereas + only expands the children immediately below the selected item.

Pressing – (minus) on an already collapsed item resets the expansion state of all that items children (so when the item is expanded again, any children that previously were expanded will now be collapsed), and also shifts the focus to the items parent and collapses it as well.

Similar logic applies to double-clicking on a tree item's expansion glyph (the little +/- or arrow symbol to the left of the item's label). If you double-click on a collapsed item, that item and all of that items' immediate children are collapsed. Double-clicking on an expanded item will collapse it plus all of its children.

Miscellaneous Tree Changes

There is an option in the Tree Preferences to turn off the tree header (top border) if desired.

By default the Tree now hides empty disk drives, this can be disabled in Preferences if desired. Note that if empty drives are hidden, floppy disk drives are now **always** hidden – this is to match the behaviour of Explorer.

The *Folder Tabs* Preferences page also has a new option to preserve the expansion status of the Folder Tree when switching between tabs. Normally when you switch tabs the tree does not change its expansion, unless this is necessary to show the currently selected folder. With this option on the tree will remember the folder expansion status from one tab to another and restore it when you switch back.

The **Set TREEROOT** command lets you temporarily re-root the Folder Tree to a specified location. There is also a *Root Tree Here* command that is displayed in the context menu for items in the Folder Tree if you hold the SHIFT key down when you right-click them.

FTP

FTP in the Tree and Address Book in the File Display

The FTP Address book and contents of FTP sites is now displayed in the Folder Tree. This can be disabled if desired through Preferences.

It is also possible to browse to the root of the FTP:// namespace in the file display and access your Address Book entries that way. Simply click the FTP item in the Tree or enter FTP:// in the Lister path field. The Address Book list is grouped according to whether sites are secure (SSL/SSH) or insecure. To connect to a site simply double-click it as if it were a normal folder.

Proxies

There have been several improvements to proxy support for FTP. Proxies can now be configured on a per-site basis as well as globally. Two additional proxy types are supported - **ftp_user@Proxy_user@remote_host** as well as a fully configurable Custom template type that lets you define the connection parameters yourself.

Support for SOCKS proxies has been improved and this now works with most SOCKS4/SOCKS5 proxy servers.

Miscellaneous FTP Changes

The FTP Address Book lets you add a comment string for individual sites; this is displayed both in the Address Book and in the File Display when you browse to the root FTP:// folder.

There is now an internal FTP password cache, which means that FTP passwords are remembered once entered for a configurable period of time. This is needed to support FTP in the tree, so that you are not continually prompted to enter site passwords whenever a folder in the tree is expanded.

FTP logs are now stored on a per-site basis rather than the option of only two shared logs for the whole system, however there is also an *All Activity* log which shows the old merged-view log of activity for all sites. There is a new option to display the FTP log automatically when connecting to a site. The FTP log is now shown in the Lister itself rather than in a separate window, but it can still be floated free of the Lister if desired.

Windows 7 Features

(These are new features for Windows 7 which didn't fit into the other categories. There are more Windows 7 features mentioned elsewhere; e.g. taskbar progress indicators and improved support for libraries.)

Configurable Jump List

In Windows 7 you can now fully configure the Jump List attached to the Opus icon in the taskbar (and the shortcut icon in the Start menu). The *Jump List* page in Preferences lets you enable or disable the display of many elements in the Jump List, including favourites and recent folders, FTP sites, layouts, commands and shortcut folders.

Shared Folder Overlay

Windows 7 removed the icon overlay that used to be shown for shared folders. Many people miss this feature and so Opus 10 now specifically checks for shared folders and manually displays the sharing overlay for them. (You can disable this if you wish.)

DPI Scaling

Opus 10 is flagged 'DPI Aware' so that, on high-DPI machines, Windows 7 will not scale and blur its windows and so that Windows 7 does not make drag & drop behave erratically. (If you have a high-DPI machine but had not noticed this, note that it only happened sometimes due to a bug in Windows 7.) As on normal-DPI machines, font and icon sizes are still up to you and can be configured via the Preferences and Customize windows.

Miscellaneous

Glass status-bars (if enabled) now remain glass when their windows are maximized.

When changing the desktop wallpaper, Windows 7's fit and fill modes are now supported.

There is support for the new **shell:**-style shortcuts of Windows 7 (e.g. **shell:VideosLibrary** to go to the Videos library, etc.).

Static folder commands are now supported, so for example, the *Create New Virtual Machine* command will be displayed when you browse to the Virtual Machines folder). These commands are shown on the Toolbar using the existing **Marker TOOLBAR** command.

Static cascading context menus are now supported, so programs which add their context menus using this new method (e.g. PeaZip) will work properly in Opus.

Utility Panel

The Lister Utility Panel has been enhanced with additional functionality. The old Output Window has been removed and its functionality largely transferred to the Utility Panel (the exception is the old Rename Test output, which has been moved to the Advanced Rename dialog).

The Utility Panel now contains the Find, Synchronize and Duplicates Finder tools as before. Additionally, it now also contains the File Log (logs file operations), FTP Logs, Other Logs (shows script output), Undo Log (shows operations that can be undone) and the Email Log (shows outgoing email).

You can use the new drop-down at the top of the Utility Panel to switch modes, or use the underlying commands to go straight to a specific page.

Note that now when the Utility Panel is open, hotkeys in the Lister are still recognised – so for example it is now possible to have a hotkey that toggles the Find panel on **and** off.

The Find and Duplicate Finder panels now use a new *multiple path field* control that makes it much easier to enter multiple paths to be searched, and easier to clear / reset them when needed (and also much more obvious that that's what they're for!).

Cosmetic improvements

Transition Animations

In Vista and Windows 7, Opus now makes use of the advanced features of the Desktop Window Manager to provide subtle transition animations when changing directories, opening / closing Lister panels, changing pages in Preferences, etc. You can fully configure the transition animations in Preferences.

Fully Themed Listers and Dialogs

For a more modern appearance, the File Display, Folder Tree and Breadcrumbs control are now themed under Vista and Windows 7. Lister menus now use the standard theme on Vista and Windows 7 (provided the toolbar style is set to *Standard* and not *Office 2003*). Additionally, all list and tree controls throughout the program (including all Preferences pages) are fully themed.

Folder Tabs

Folder tab background colors now work even if the tabs are themed. (Theme elements are re-colored on-the-fly.)

Folder tabs can now have 'normal-sized' close buttons. (You can still have small ones or turn them off entirely if you prefer.)

Drag & Drop

When dragging and dropping it is now far more obvious which item is under the mouse (the target item is now highlighted rather than simply being outlined).

Frames, Borders and Glyphs

The general appearance of the Lister has been improved with new anti-aliased button glyphs, more subtle gradient fills and the elimination of duplicate/unnecessary frames around Lister elements.

The frames and headings around Lister elements can now have their fonts and colors configured if you wish to override the system-wide settings.

Miscellaneous

New Update Checker

There is a new update checker that makes use of the Opus RSS feed to update you about Opus news, hints and tips, plus of course information about new versions. The update checker can also be configured to automatically download new updates, and you will be prompted to install these once they are available.

SOCKS Proxy Support for HTTP

Previously the option for SOCKS proxies was only available for FTP, but Opus now supports the use of SOCKS 4/5 proxies for HTTP as well (e.g. for the update checker).

Command Prompt Here

The **CLI DOSPROMPT** command will now create an elevated command prompt if CTRL+SHIFT is held down when the command is executed. You can also specify **CLI DOSPROMPT=admin** to forcibly create an elevated prompt.

Elevated command prompts now appear with their background color set to red to distinguish them from non-elevated prompts. You can configure this color using the **color** parameter, or use **nocolor** to disable it. Note that this only applies if UAC is enabled and the command prompt has been specifically elevated by Opus. If UAC is disabled, or Opus itself is running as administrator, then this has no effect.

The **CLI DOSPROMPT** uses the new **"automap UNC"** feature in Opus to automatically map a drive letter to a UNC path when needed – so for the first time you can now open a DOS prompt to a UNC location. The temporary drive letter is automatically unmapped when no longer needed.

Info-Tip Thumbnail Borders

In Info Tips, the **{thumbnail}** code can now take a parameter to indicate the border status:

- **{thumbnail:0}** means no border
- **{thumbnail:1}** means display a border (the default)
- **{thumbnail:2}** means only display a border for non-transparent images

Content Type Threshold and Sub-Folders

Content Type Folder Formats have a new option to consider sub-folder count when calculating content thresholds. This means that if you have a folder containing 100 sub-folders and 1 image file, it will not be considered an image directory (unless the threshold was set to 1%).

Other Miscellaneous Changes

- There is a new option to ==automatically select the next file in the file display after a file has been deleted== (good for browsing and cleaning up files using the Viewer pane)
- Checkbox mode now works in all modes (previously only Details and Power mode supported checkbox mode)
- The description field for executable files now includes platform information
- The description field for text files now includes the file encoding (if the file has a BOM)
- ==Clipboard Copy/Cut no longer deselects the files that have been put on the clipboard== (this is to be compatible with Explorer)
- ==Breadcrumbs path fields have several new optional arguments== (specified in Customize mode). **HideDesktopFolders** hides child folders and zip files on the desktop from the menu. **ShowFavorites** and **HideFavorites** (override the *Folder Tree* Preferences to force Favorites to be shown or hidden in the menu – ordinarily the Breadcrumbs field mimics the tree). **ShowEmptyDrives** and **HideEmptyDrives** let you control whether empty disk drives are shown in the dropdowns – again, the normal behaviour is to mimic the Folder Tree. Finally, if the My Computer item is hidden, the drive list is now shown in the Desktop item's menu.
- Wider and improved support for mice with buttons/wheels for horizontal scrolling, including workarounds for the incorrect behaviour of Logitech's drivers.
- Improved support for managing 'illegal' file paths created by other programs. For example, files and folders whose names end in '.' can now be entered, renamed and deleted (provided you bypass the recycle bin). Opus still does not (generally) allow illegal paths to be created because they cause problems in almost all other programs (including Explorer and the common File Open/Save dialogs). The idea is that Opus lets you clean up other programs' messes without making it easy to create a similar mess yourself.
- Improved support for "long" (> 260 characters) path names.
- Improved the way virtual folder settings are stored so that huge settings data no longer slows down navigations to and from virtual folders.
- When saving a new layout via Settings -> Lister Layout, you can now directly specify options such as whether or not the layout closes existing windows. Previously, this could only be done via the Preferences window after saving the layout.
- ==Folder tabs now, by default, treat the whole tab (icon and label) as the tab (not the folder) when dragged or right-clicked.== There is an option in Preferences to restore the old behaviour where dragging or right-clicking the label acts on the folder the tab represents. Renaming a tab still requires that you click the label part.
- If you hover the mouse pointer over the Format Lock icon on the status bar a tooltip will appear explaining where the current Folder Format comes from. This can help when it is not obvious which Folder Format, Layout or Style you need to edit to change the format used when you open a new window or change folders. (Don't forget to read the Folder Format FAQ, too: http://resource.dopus.com/viewtopic.php?t=1369)
- Added a new **Cancel Checkbox mode when folder is changed** option to Folders / Folder Behaviour, to enable checkbox mode to remain active when changing folders.
- Also added **Go EJECT** command to open CD tray and added a link for this to the "no disk in drive" warning that is shown when you attempt to read an empty CD drive

Viewer and Preview Panel

Grow to Page

A new Grow to Page mode enlarges and reduces images as needed to fit the window/screen. The old Fit to Page mode, which reduces but never enlarges, still exists. There are new toolbar buttons for both modes and you can use the Ctrl-G and Ctrl-F hotkeys in the viewer.

Disable Screen-Saver and Sleep During Playback

The viewer's slideshow mode and the Movie plugin now prevent the screen-saver, monitor power-down and computer sleep while active, unless the battery level becomes critical. (Note: The screen-saver will not be prevented if password protection is required by the computer's policy.)

Next/Previous Image Lists when Launched Externally

Previously, the viewer only populated its list of next/previous images if it was launched within Opus via a double-click. The list is now generated in all situations (e.g. launching it via the Open With menu, d8viewer.exe or "dopusrt.exe /show").

Miscellaneous Viewer Changes

A new Preferences option allows you to prevent double-click from starting slideshow mode, unless shift is held down. Useful for those who found they kept triggering slideshows by mistake.

If the viewer is in full-screen mode and you change to another window (e.g. via alt-tab), the viewer will no longer obscure the other window by remaining on-top.

Image & Audio Formats

Improved Support for Image Formats

- Photoshop (PSD) CMYK, RGBA, 32-bpp/96-bpp and indexed images
- Targa (TGA) alpha channel, 16-bit images and indexed images
- TIFF alpha channel images

Improved Support for Audio Metadata

- iTunes AAC (M4A and M4P) tags and cover-art. (Note: For music purchased from iTunes Music Store, the "Encoded by" column shows the name of the purchaser.)
- Ogg Vorbis and FLAC cover-art (in addition to existing tag support).
- Speex (SPX) tags.
- Monkey's Audio (APE) tags.

Miscellaneous Image Changes

- The Image Converter can now reset EXIF rotation tags in JPEG files. There is also a new **NOLOSSLESS** argument for the **Image CONVERT** command.
- Advanced Preferences option for JPEG color profiles.
- Advanced Preferences option to force interpretation of four-channel TIFF images as RGBA when they do not explicitly flag the fourth channel as alpha.

Preferences

Preferences Dialog

The main Preferences Dialog has been changed from using a Tree structure to a flat list with expandable categories. There have been lots of changes to the pages in Preferences – many have been merged, or deleted altogether, and several new categories have been added in an attempt to make it easier to navigate. As always, the Preferences Filter is the best way of locating a specific page or option.

The Preferences Dialog now remembers which categories were expanded and which were collapsed when closes, and restores these the next time it is invoked. You can press – (minus) in the category list to collapse the current category – pressing – again collapses all categories (similar to the Folder Tree). Pressing + (plus) expands a category, and pressing * (asterisk) expands all categories.

Advanced Options

- **dos_automap_unc_paths** enables automatic mapping of UNC paths for DOS functions. Currently this is only used by the **CLI DOSPROMPT** command but may be expanded to other functions in the future.
- **flatview_folder_filters** enables the use of folder filters in Flat View mode (disabled by default as this usually causes more confusion than anything)
- **go_up_always_back** makes the **Go UP** command always behave as if the **BACK** argument were also specified
- **def_func_cd_sourcedir** controls whether functions that don't set a specific current directory should use the current source directory or C:\Windows\System32 as an initial current directory. In Vista/Windows 7 it is safer to use C:\Windows\System32 as a default current directory as this is not writeable by non-elevated programs. This is the same behaviour as Explorer.
- **max_thumbnail_size** lets you set the maximum allowed thumbnail size (up to 4096 x 4096). Note that setting larger thumbnails will affect memory usage and the size of the thumbnail cache.
- **progress_smoothing** controls the display of progress bars in Vista and Windows 7. Smoothly animated progress bars are more visually attractive but lag behind the "real" progress and so do not provide a completely accurate progress indication.
- **copy_buffer_size** lets you configure the buffer size used for file copying.
- **tiff_assume_alpha** forces alpha channel support for TIFF images with have a fourth channel but don't explicitly mark it as an alpha channel.
- **win7_show_sharing_overlays** lets you prevent Opus from showing overlay icons for shared folders in Windows 7 (in previous versions of Windows the overlay is provided by Windows itself and Opus does not control this)
- **setwallpaper_file** lets you configure the filename (and optionally the path) used by the **Set As Wallpaper** command in Opus. If you specify only a filename the file will be stored in your documents folder, you can specify a full path to override this. In Vista and Windows 7 you can also specify this file with a **.jpg** suffix to have the file stored as a JPEG rather than a BMP. When storing as a JPEG the quality can also be specified (e.g. **wallpaper.jpg,80** to specify a JPEG at 80% quality).
- **name_group_high_pri_chars** lets you specify characters that "high-priority" filenames begin with, in order to have those files grouped at the top of the list when grouping by name.

Sound Preferences

- The Navigation Click, Menu Command and Menu Pop-Up sounds are now configured through the Sounds page in Preferences and respect the global Enable Sounds checkbox.
- Where applicable, sound events now pick up default sounds from Windows. All sounds are still off by default but now you don't have to hunt for wav files to turn some of them on.
- Sound events which pick up defaults from Windows will now play the default sound if they are enabled but the specified wav file cannot be found.

Miscellaneous Preferences

- There is a new Preferences page that lets you configure the Find-as-you-Type field. You can specify the keys that invoke different modes of the FAYT field, and configure the colors used for each mode.
- There is also a page for the Filter Bar that lets you configure its activation key and other settings.
- Thumbnail Preferences has a new option to hide overlayed File type icons if the thumbnail image is too small.
- Layouts and Styles can now be set as hidden meaning they aren't listed or shown in toolbars or menus, and can only be accessed via raw commands.
- There is a new option in the *Deleting Files* Preferences page to skip the initial confirmation dialog when deleting to the recycle bin. With this option, the initial confirmation dialog will only be shown when the delete is not to the recycle bin (i.e. not undoable).
- There is a new option in the *Folder Tabs* Preferences to display all tabs (not just those that don't fit on screen) in the overflow popup menu.
- The *Startup* page under *Launching Opus* lets you configure Opus to automatically run a User-defined command on startup.

Hotkeys

In the Customize dialog, the Keys tab now allows you to turn hotkeys on or off individually – useful if you want to temporarily disable a hotkey without deleting it.

Hotkeys can now be defined for the "media keys" (special keys like "play", "pause", etc on some modern keyboards). Opus 9 used hard-coded functions for several media keys like "back" and "forwards" – these are now defined in the Keys section.

Improved Color Picker

Hue/Saturation/Luminosity controls show the colors you'll get by clicking on them (rather than generic spreads). Small adjustments to them or the Red/Green/Blue sliders can be made using the mouse-wheel or cursor keys.

Left-click the RGB numbers to toggle between hex and decimal notations. Right-click (or Ctrl-C) to copy the displayed values to the clipboard. Drag the dropper to copy colors from the screen. The area around the mouse will be magnified to help you accurately find the right pixel. Use the mouse-wheel while dragging to change zoom levels.

The color-picker avoids obscuring other color buttons so you can easily copy their colors. In the grid of preset and custom colors, right-click a custom color to replace it with the current one. Shift+Space performs the same action. Hover over colors for their numeric RGB values. When you edit a color the previous version of it is shown below the current one for comparison. Select the previous color to revert to it.

Functions

Environment Variables in Icon Definitions

The icon file for a toolbar button can now be specified using environment variables (and path aliases).

@toggle command modifier

For buttons that act as toggles (e.g. **Set VIEW=details**), the **@toggle** modifier lets you change the highlight state of the button. Taking this as an example, ordinarily the button would appear highlighted when the File Display was in Details mode. If you specify **@toggle:invert** in the button definition, the button would appear highlighted when the File Display was NOT in details mode. You can also specify **@toggle:disable** to prevent the button from appearing highlighted at all.

@leavedoswindowopen command modifier

Commands that use this modifier (plus DOS commands run from the Find-as-you-Type field) now only internally pass the **/K** modifier to the command interpreter if **cmd.exe** is being used. If **%ComSpec%** is set to something other than **cmd.exe**, Opus will look for the optional **%ComSpecLeaveOpenArg%** environment variable, and use that as command interpreter if specified – otherwise **%ComSpec%** is used as-is without adding any arguments.

@resolvelinks command modifier

If this modifier is used in a command, any shortcut files that are passed to external programs will be resolved before they are used.

@ifset command modifier

This modifier allows simple conditional behaviour in a function, based on tests for various **Set** command conditions. For example, **@ifset VIEW=details** would cause any lines following that one in the command to be executed if the File Display was in details mode. **@ifset:else** lets you provide an "else" clause and **@ifset:common** lets you provide common instructions that are always executed.

User-Defined Commands

User-defined commands can now have a label that is separate to their name; the label is displayed if any user commands are added to the Jump List in Windows 7).

User commands also have a checkbox that makes them hidden in the Commands menu; this lets you create commands for the Jump List that aren't shown elsewhere in the program.

File and Filem modifiers

The **file** and **filem** modifiers now take an optional **q** parameter (e.g. **{file|filemq}**) to force quoting of all filenames written to the file.

Raw Commands

The following raw command arguments have been added to Directory Opus 10.

CLI

- **CLI DOSPROMPT** – added **admin** and **noadmin** options to force elevated or non-elevated DOS prompts under UAC. Also added **color=** flag to set the background color and **nocolor** to prevent admin-mode prompt from being red by default.
- **CLI QUICKRANGE** – opens the FAYT field in range selection mode (the Index column must be displayed in the Lister).
- **CLI QUICKSEARCH** – opens the FAYT field in Windows Search mode.

Clipboard

- **Clipboard PASTE COPYQUEUE** – added **COPYQUEUE** argument to enable control of copy queue when pasting files. Similar to **QUEUE** argument for **Copy** command.

Close

- **Close SYSTEM** – added **switch** option to initiate fast user switching
- **Close PROGRAM** – added **confirm** option to confirm before exiting
- **Close RESTART AUTOLISTER** – added the **AUTOLISTER** switch for the **Close RESTART** command to control whether a Lister is automatically opened when Opus restarts.

ContextMenu

- **ContextMenu EXTENDEDVERBS** – list/run items that only appear when shift is held down. e.g. **ContextMenu SHOWCMDS EXTENDEDVERBS** to show the list; **ContextMenu VERB="startpin" EXTENDEDVERBS** to pin an item to the Windows 7 start menu (note that Windows Vista used the **favpin** verb instead).

Copy

- **Copy MAKESFX** – converts an existing Zip file to a self-extracting archive
- **Copy INCLUDEINLIBRARY** – adds folders to a library
- **Copy QUEUE** – by itself, initiates a Copy using automatic queuing. Specify a queue name for manual queuing, **none** to disable queuing, **quiet** to suppress the confirmation dialog. Use the **shift** parameter to specify alternate parameters when the SHIFT key is held down – any options specified after the **shift** keyword will be used when SHIFT is down, and those before will be used normally.
- **Copy UNATTENDED** – allows an unattended Copy operation to be initiated without having to turn on the option in the progress dialog.
- **Copy MAKELINK** now supports the **AS** argument to specify the target filename
- **Copy COPYOWNER** – added **COPYOWNER** argument to control the copying of file owner information (overrides settings in Preferences).

CreateFolder

- **CreateFolder NOSEL** – prevents newly created folder from being selected
- **CreateFolder ARCHIVE** – create a new archive file, defaults to Zip – you can optionally specify a default format (e.g. **CreateFolder ARCHIVE=7z**). The **ARCHIVEARGS** argument lets you pass archive-specific configuration data through to the new archive; this is file-format dependent.
- **CreateFolder COLLQUERY** – create a new Stored Query collection

Delete

- **Delete REMOVECOLLECTION** command now takes the optional **auto** switch, which can let the one delete button work in both collections and normal folders. The new behaviour of this command is as follows:
  - **Delete REMOVECOLLECTION**: Same behaviour as before; this will remove files from a collection and will do nothing in a normal folder
  - **Delete REMOVECOLLECTION=auto**: This will remove from a collection when in a collection, and delete files when in a normal folder
  - **Delete REMOVECOLLECTION=auto SHIFT**: Removes when in a collection and Shift key not held down, deletes otherwise (delete will bypass the recycle bin due to normal operation of the **SHIFT** argument).
  - **Delete REMOVECOLLECTION=auto SHIFT RECYCLE**: Removes when in a collection and Shift key not held down, deletes to recycle bin otherwise.

Favorites

- **Favorites ADD=alias** lets you add a new Folder Alias programmatically. For example, **Favorites ADD=alias NAME=MyAlias PATH=C:\Temp**. If you leave the **PATH** argument out the current folder will be used.

Find

- **Find QUERY** – run a query in the current folder using Windows Search. Combine with the **IN** argument to specify the folders to search in.
- **Find SAVEQUERY** – save a Windows Search as a Stored Query collection.

Go

- **Go NEW** command has new optional **metapane** and **nometapane** switches to control the state of the Metapane in the new Lister.
- **Go TABSELECT=home** - resets a locked tab to its home folder
- **Go GROUPCOLLAPSE** – collapse a specified file group. You can specify the full name of the group to collapse or a wildcard pattern (e.g. **Go GROUPCOLLAPSE=*** to collapse all groups). You can also specify the index of a group, e.g. **Go GROUPCOLLAPSE=?#10** to collapse the 10th group.
- **Go GROUPEXPAND** – expand a specified file group (same as **GROUPCOLLAPSE**).
- **Go ROOTTREE** – this option will root the Folder Tree to the specified folder (e.g. **Go C:\Temp NEW ROOTTREE**)
- **Go TABMOVE** can split from the current tab to a dual display with the **split** parameter, or to a new Lister with the **splitlister** parameter. You can combine this with the **PATH** argument to specify a tab number to split from
- **Go CONNECT** can optionally take the UNC path of the network folder to map as an argument.
- **Go EJECT** can be used to eject CD/DVDs and other removable devices.
- **Go FOLDERCONTENT** has some new options to control the display of the file list produced – **hideext** (hide extensions), **sortext** (sort by extension), **sortsize** (sort by size), **sortdate** (sort by date), **sortreverse** (reverse the normal sort order). It also has **copy** and **move** options to make the generated list into copy or move buttons, and **nomenusel** and **dblclickmenu** to control the behaviour of submenu buttons.

Image

- The **Image CONVERT** command can take the new **NOLOSSLESS** parameter to disable lossless rotation.

Prefs

- **Prefs BACKUP** lets you automate the Preferences backup process. The **BACKUP** argument lets you specify which parts of your Preferences you wish to backup. Use the additional **TO**, **PASSWORD**, **DESC** and **QUIET** arguments to fully automate the process.
- **Prefs RESTORE** lets you automate the Preferences restore process. The **RESTORE** argument lets you specify which parts of your Preferences you wish to restore, and the **FROM** argument lets you specify a backup file to restore.
- **Prefs LAYOUTIGNOREFORMATS** and **LAYOUTMOUSERELATIVE** are used with the **LAYOUT** argument to control the 'ignore formats' and 'mouse relative' options of the specified Layout
- **Prefs LAYOUTSAVE** takes an optional **noupdatesettings** parameter which prevents it from remembering the settings specified in the Layout Save dialog box.

Properties

- **Properties SETWALLPAPER** – now supports **fit** and **fill** modes under Windows 7
- **Properties SETLABEL** command has replaced the old **SETCOLOR** command.

Select

- **Select THIS** - selects the file that currently has input focus
- **Select RANGE** – select a file by index or range. For example, **Select RANGE = 1-10** to select files one through ten.
- **Select LAST** – select the last file in the list
- **Select SOURCETODEST** and **DESTTOSOURCE** have an optional **noext** argument which makes them ignore file extensions when considering which files to select

Set

- **Set METAPANE** – show or hide the metapane
- **Set METAPANESIZE** – control metapane size
- **Set GROUPBY** – control file grouping in the current file display
- **Set GROUPREVERSE** – reverse the order of file groups
- **Set GLOBALHIDEFILENAME** – edit the global hide filename filter
- **Set GLOBALHIDEFOLDERS** – edit the global hide folder filter
- **Set GLOBALHIDEFILTER** – turn the global hide filter on or off
- **Set GLOBALHIDEHIDDEN** – change the state of the global filter for files marked Hidden
- **Set LISTERPOS** – change the position of the current lister (similar to **Set LISTERSIZE**).
- **Set TREEROOT** – lets you temporarily root the Folder Tree to an arbitrary folder
- **Set GRIDLINES** – lets you make temporary changes to the gridlines settings in the current file display
- **Set QUICKFILTER** – by itself, opens the Filter Bar and gives it focus. With a pattern specified, applies that as the filter pattern. This has replaced the old **Set VIEWFILTER** command.
- **Set QUICKFILTERFLAGS** – toggle on/off the hide/show files/folders options for the Filter Bar
- **Set QUICKFILTERCLEAR** – clear the current quick filter, hide the Filter Bar unless it is set to always be visible
- **Set QUICKFILTER=!prev** – lets you restore the previous quick filter in the current file display

SetAttr

- **SetAttr ZIPCOMMENT** – use when inside a zip file to set the comment for the file
- **SetAttr META** – change file metadata (see below)

Show

- **Show LISTSIBLINGS** lets you force the standalone viewer to generate a list of next / previous files (normally it only does this on double-click if the Preferences option is on).
- **Show SLIDESHOW** begins a slideshow automatically of either the selected images (if there are any), or all images in the current folder if nothing is selected.

Toolbar

- **Toolbar STATE** – added **floatactive** option that lets you float a Toolbar and make it active
- **Toolbar RESETDEFAULTS** – resets toolbars to the default settings.

Programmatic Setting of Metadata

As well as using the Metadata Panel, you can use the **SetAttr META** command to display a standalone metadata editor. This operates like a traditional file command, on all currently selected files.

You can also supply parameters for the **SetAttr META** command to change metadata programmatically, without displaying a user interface at all. The general command template to do this is:

SetAttr META "field:value" "field:value" "field:value" ...

You can specify as many field:value pairs on the command line as you like – they must be enclosed in quotes if any of the values contain spaces.

For example,

SetAttr META "album:Dark Side Of The Moon" "albumartist:Pink Floyd"

Fields also support wildcards; for example, a simple command to clear all metadata fields would be:

SetAttr META *

Some values support more complex data than a simple string. For example, numeric values (which take a number) or date values (which take a date string) can also usually take a + or – parameter to increment or decrement the existing value. For example, to subtract one hour from the EXIF shooting time of selected images:

SetAttr META datetaken:-1

Note some values in the list below apply to multiple categories (e.g. **copyright** applies to music/movies/images as well as documents). Not all items are applicable to all file types.

Available metadata items:

Standard

- attr
- createdate
- lastmodifieddate
- comment
- rating
- tags

Documents

- title
- author
- subject
- copyright
- creator
- producer
- category
- company
- manager
- lastsavedby
- contentstatus
- contenttype
- language

Music / Movies

- album
- artist
- albumartist
- year
- track
- genre
- publisher
- encoder
- authorurl
- composers
- conductor
- bpm
- origartist
- discnumber
- contentgroup
- initialkey
- mood
- coverart

- subtitle
- directors
- producers
- writers
- releasedate

Images

- datetaken
- datedigitized
- cameramake
- cameramodel
- software
- gpslatitude
- gpslongitude
- gpsaltitude
- fnumber
- aperture
- shutterspeed
- exposuretime
- orientation
- exposurebias
- focallength
- 35mmfocallength
- digitalzoom
- subjectdistance
- isospeed
- flash
- whitebalance
- meteringmode
- exposureprogram
- scenecapturetype
- contrast
- sharpness
- saturation

External Control of File Collections

The dopusrt.exe program can now be used from outside of Opus to manipulate File Collections. This functionality is accessed using the **dopusrt.exe /col** command, with the following arguments:

- **create [/noclear] [/icon:<file>] [/desc:<desc>] [/query] <coll-name>**

  Creates a new collection (if collection already exists, it will be cleared unless **/noclear** is specified)

  /noclear – don't clear if collection already exists
  /icon – specify custom icon for the new collection
  /desc – specify description for the new collection
  /query – creates a new stored query
  coll-name – name of the collection to create

- **delete <coll-name>**

  Deletes an existing collection.

  coll-name – name of the collection to delete

- **clear <coll-name>**

  Clears an existing collection.

  coll-name – name of the collection to clear

- **rename <old-coll-name> <new-coll-name>**

  Renames an existing collection.

  old-coll-name – name of the collection to rename
  new-coll-name – new name for the collection

- **add <coll-name> <item> [<item> [...]]**

  Adds items to a collection.

  coll-name – name of the collection to add the item(s) to
  item – full pathname of the item(s) to add, wildcards are also supported

- **remove <coll-name> <item> [<item> [...]]**

  Removes items from a collection

  coll-name – name of the collection to remove the item(s) from
  item – full pathname, or name within the collection, of the item(s) to add, wildcards are also supported

- **import [/clear] [/create] [/nocheck] <coll-name> <import-file>**

    Imports a list of items from a text file to a collection. The file must be structured with one fully-qualified pathname on each line.

    /clear – clear the collection before importing the new items
    /create – create collection if it doesn't already exist
    /nocheck – don't check that the items are valid/exist before importing
    coll-name – name of the collection to import the items to
    import-file – name of the file to import the items from

- **export [/append] [/utf16be] [/utf16le] [/utf8] [/ansi] [/cp:<codepage>] <coll-name> <export-file>**

    Exports the contents of a collection to a text file. If the encoding type is not specified, the file will be exported as UTF16LE if any filenames require Unicode, otherwise ANSI in the current code-page.

    /append – appends to an existing text file, otherwise will overwrite if output file already exists
    /utf16be – export in UTF16-BE format
    /utf16le - export in UTF16-LE format
    /utf8 – export in UTF-8 format
    /ansi – export as ANSI
    /cp :<codepage> - codepage to use when exporting as ANSI
    coll-**name** – name of the collection to export the contents of
    export-file – name of the output text file

- **setdesc <coll-name> <desc>**

    Set the description of an existing collection.

    coll-name – name of the collection
    desc – description for the collection

- **seticon <coll-name> <icon-file>**

    Set a custom icon for an existing collection.

    coll-name – name of the collection
    icon-file - full path to the image file

- **setquery [/auto] [/noauto] <coll-name> <query>**

    Set the query string for a stored query collection. Note that the collection must have been created as a "stored query".

    /auto - set the stored query to "auto refresh" mode
    /noauto – set the stored query to not automatically refresh
    coll-name – name of the stored query collection
    query - query string

- **setpaths [/add] <coll-name> <path> [<path> [...]]**

  Set the path or paths a stored query will search.

  /add – if specified, paths will be added to those already set, otherwise any existing paths will be discarded
  coll-name – name of the stored query collection
  path – full path to the folder to search

- **runquery <coll-name>**

  Run (refresh) a stored query.

  coll-name – name of the stored query collection