

# LL Navigator™ 1.2.0.6 Release Notes

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## 1. Introduction

This document describes the release notes for LL Navigator. It provides the latest information on the tool. It complements the LL Navigator Administrator guide. In case of conflict the release notes take precedence over the LL Navigator Administrator guide.

## 2. About LL Navigator

LL Navigator is a browser-based tool that shows OpenText Livelink / OpenText Content Server in a Windows Explorer like interface. It allows users to execute 80 % of their regular tasks in a highly efficient way. Users can create new items such as documents, folders and compound documents using standard Livelink / Content Server forms. LL Navigator allows users to toggle back and forth to the standard view to perform less frequent tasks such as view an item's audit details.

The use of HTML5 allows users to upload multiple documents from the desktop into Livelink / Content Server using drag and drop. Users with Chrome or Opera can upload folder structures plus nested content from the desktop. LL Navigator enables users to upload Outlook msg files into Livelink / Content Server using a browser. Email metadata such as From, To, Subject, ... is automatically extracted and captured.

LL Navigator also allows downloading of multiple documents to the desktop or downloading multiple levels as a zip file. The drag and drop capabilities of the tool also allow moving and copying content within Livelink (or Content Server).

LL Navigator has been designed and built with performance as a key requirement. Typical operations like browsing a folder result in up to 90 % less network traffic than the regular Livelink / Content Server interface. Caching provides users with a highly responsive user interface to minimize waiting times. LL Navigator allows use of multiple parallel processes. Throttling is possible to avoid Livelink / Content Server service degradation or thread saturation.

Organisations can reduce the complexity of their IT landscape and/or lower the operational costs by replacing Livelink Explorer, Livelink WebDAV or Enterprise Connect by LL Navigator. It also enables extranet users to work more efficiently. Lastly, using LL Navigator will address performance issues for users connecting under constrained network conditions.

### 3. Supported Environments

This section provides information on the supported environments. LL Navigator is a browser-based application and is there not dependent on the database server and the operating system used by Livelink or Content Server.

#### 2.1 Client Support

LL Navigator is supported on the clients listed below.

Client	Supported	Notes
Windows Vista	✓	This excludes Chrome on Windows Vista
Windows 7	✓	
Windows 8	✓	
Windows 8.1	✓	
Windows 10	✓	

Clients not listed have not been tested and are not supported.

#### 2.2 Browser Support

The following browsers are supported:

Browser	Supported	Notes
Chrome 50 or up	✓	
Opera 30 or up	✓	From LL Navigator 1.1.0.0 and up
FireFox 40 or up	✓	From LL Navigator 1.2.0.0 and up
Internet Explorer 8 (32- and 64-bit)	✓	HTML5 dependent functionality like drag and drop and upload/download multiple files is not available
Internet Explorer 9 (32- and 64-bit)	✓	HTML5 dependent functionality like drag and drop and upload/download multiple files is not available
Internet Explorer 10 (32- and 64-bit)	✓	Drag and drop of multiple documents into Livelink is supported. Drag and drop of folder structures into Livelink is not supported.
Internet Explorer 11 (32- and 64-bit)	✓	Drag and drop of multiple documents into Livelink is supported. Drag and drop of folder structures into Livelink is not supported.

Browsers not listed have not been tested and are not supported.

Note: LL Navigator will also support Microsoft Edge when Microsoft has resolved the drag and drop bug in Edge (see Microsoft Connect for [details](#)).

## 2.3 Livelink / Content Server versions supported

The following Livelink / Content Server versions are supported.

Version	Supported	Notes
Livelink 9.7.0	✓	
Livelink 9.7.1	✓	
Content Server 10.0	✓	
Content Server 10.5	✓	

Livelink / Content Server versions not listed have not been tested and are not supported.

## 2.4 Internationalisation

The current version of LL Navigator supports English. The code allows for easy deployment in other languages through the use of an embedded resource file. This can be made available if there is sufficient demand.

## 2.5 Microsoft Office Integration

LL Navigator does not provide direct integration with Microsoft Office on Chrome because Chrome no longer support NPAPI. This also affects earlier versions of LL Navigator.

## 4. Releases

This section provides an overview of the characteristics per release.

### 4.1 Bug release (1.2.0.6)

1. Fix issue with “Download & Zip” introduced by Chrome 50 (and up) which prevented selection of files larger than 20 MB.  
Selecting one or more large files would start consuming excessive memory (GB’s) and then stop working with an “Aw Snap” error.
2. Show correct error message when the Enterprise Workspace cannot be opened.
3. Fix issue with the addition message “Failed – Network error” when download files using Chrome 50 or up.
4. Fix alignment problem with the upload and download statistics tables.
5. Implement check for downloading large document volumes using “Download”.  
For Chrome and Opera the maximum document download volume when using the “Download” is set to 500 MB. This limit is determined by Chrome’s maximum blob memory use of 500 MB. Users with Chrome have to download volumes exceeding 500 MB in chunks of 500 MB. For other browsers the limit is set to 2500 MB.
6. Chrome on Windows Vista is no longer supported.
7. Fix bug with retries when download requests fail.  
Some browsers would use the failed request from the browser’s cache for successive requests instead of submitting a new request (which is expected behavior).
8. Reduce the maximum file size and maximum download volume for “Download & Zip” when using Internet Explorer 11.

Modified Internet Explorer 11 thresholds for “Download & Zip”

	<b>1.2.0.5 and earlier</b>	<b>1.2.0.6</b>
Maximum file size	100	75
Maximum download volume	250	200

### 4.2 Bug release (1.2.0.5)

1. Modified naming of zip files generated using “Download & Zip” to LLN\_yyyymmddThmmss.zip
2. Fixed minor alignment problem in the right hand pane by removing obsolete space.
3. Fixed bug with naming of Personal and Enterprise workspaces to start with an uppercase character.
4. Hide previewing of emails (subtype 749) on systems configured without email folders.

### 4.3 Bug release (1.2.0.4)

1. [Only for IE11 browsers running in IE8 or IE9 document mode]  
Inform users about the strongly reduced functionality because there is no HTML5 support. Plus fix JavaScript error upon opening page.

#### 4.4 Feature and bug release (1.2.0.3)

1. Download & Zip allows users to download content from Livelink / Content Server to a zip file on the desktop. Download & Zip supports documents, folders, emails, E-mail folders, Compound Documents, Projects, short cuts to document/emails, Personal Workspace and Enterprise workspace.

Browser	Maximum file size / Maximum download volume
Chrome	250 MB / 500 MB
Opera	250 MB / 500 MB
FireFox	250 MB / 500 MB
Internet Explorer 10/11	100 MB / 200 MB
Internet Explorer 8/9	Not supported

Note: the LL Navigator administrator can configure lower limits for the maximum file sizes and/or download volumes.

2. Support for Content Server 10.5
3. Support for Enterprise Connect 10.5.2 (on both Content Server 10.0 and 10.5). Specifically this allows users to use LL Navigator create new E-mail folders, upload Outlook msg files as emails (SubType 749) and automatically extract email metadata and populate corresponding fields in Livelink / Content Server.
4. Support for FireFox
5. The maximum file size limits for uploading individual files are listed below.

Browser	Maximum file size
Chrome	500 MB
Opera	500 MB
FireFox	500 MB
Internet Explorer 10/11	250 MB (was 200 MB)
Internet Explorer 8/9	N/A

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6. The 5 MB limit for extracting email metadata from Outlook msg files has been removed.
7. Various minor changes:
  - Close button to close LL Navigator and toggle back to Livelink / Content Server
  - Use HTML5 API calls to extract the MIME type from files (instead of using the file extension)
  - Last Location retrieves the hierarchy details uses asynchronous requests to avoid locking the user interface

#### 4.5 Feature and bug release (1.1.0.0)

1. Maximum upload volume

In the LL Navigator versions up to versions 1.1.0.0 the maximum upload volume was determined by the browser's capability to reclaim unused memory. For example, Chrome had an upload volume limit of 500 MB in LL Navigator 1.0.6. The code of LL Navigator 1.1.0.0 has been

optimised to reduce this dependency. As a result the maximum upload volume limit is no longer required from a technical perspective. Tests show that LL Navigator works seamless with volumes of 5 – 10 GB, the memory usage remains stable and is released upon completion. The maximum upload volume can still be configured by the LL Navigator administrator to restrict the amount of data users can upload in a single request.

- The maximum file size thresholds have been increased significantly. The details are listed below.

Browser	Maximum file size in MB
Chrome	500 MB (was 250 MB)
Opera	500 MB
Internet Explorer 10/11	200 MB (was 25 MB)
Internet Explorer 8/9	N/A

- Support for Content Server 10.0 (hereafter referred to as CS10.0)  
 Note: the automatic extraction of email metadata (e.g. To, From, Subject, ..) when uploading Outlook msg files is only supported on Livelink 9.7.x and CS10.0 configured with OpenText Explorer 10.0. LL Navigator does not support automatic extraction of email metadata on CS10.0 with Enterprise Connect and the msg files will be uploaded as regular files (without extraction of the email metadata).
- LL Navigator can be configured to use a CS10.0 or Livelink 9.7 look and feel.  
 See the LL Navigator Administrator guide for further details.
- Support for Opera. This includes the drag and drop of folder structures (incl. content).
- Support for Windows 10<sup>1</sup> with Chrome, Opera and Internet Explorer 11.
- Minor changes:
  - The visibility of the “Last Location” button is made configurable
  - The Personal and Enterprise workspaces can no longer be added as favourites.
  - The Category button in the Upload view is only enabled after the user has selected content
  - Integration with Office through the Office Editor Active X has been removed<sup>2</sup>
  - The “About” window shows the Livelink / Content Server version and the user agent details
  - Fix bug with merging folders

## 4.6 Feature and bug release (1.0.6.0)

- Email support

This comprises the following:

- automatic detection if the user has privileges to create E-mail folders (SubType 751) in Livelink
- separate button on the toolbar to create E-mail folders
- previewing of emails stored in Livelink
- automatic extraction of email metadata (e.g. To, From, Subject, ..) when uploading Outlook msg

<sup>1</sup> The current release does not support Microsoft Edge. This is planned for in the next release.

<sup>2</sup> Google Chrome no longer supports NPAPI that was used by IE Tab.

files as emails (SubType 749). The email metadata fields in E-mail folders are automatically populated. Support for Unicode characters.

2. Major performance improvement when uploading documents / folders that already exist.
3. Modified progress reporting for items that already exist in Livelink (progress now displayed as 50 % to indicate the operation has started but is not fully completed). In previous versions the progress would be displayed as 100 %. This is incorrect because the operation was not fully completed and required a response from the user.
4. Fixed bug with uploading folders containing one or more & characters in the folder name.
5. Fixed bug with adding Favourites on Internet Explorer.

#### 4.7 Bug release (1.0.5.4)

1. Fixed bug with downloading documents where the document name does not contain an extension.
2. Fixed bug with displaying a trailing dot character in document names without extension.

#### 4.8 Bug release (1.0.5.3)

1. Enhanced handling of server / network errors by making successive retry requests with configurable intervals (default 1000 ms).
2. Fixed bug with newly created favourites not being displayed.
3. Display thresholds like maximum file size in the “About” window.
4. Include instructions for Chrome users when using multiple downloads.
5. Configurable number of download threads<sup>3</sup>.

#### 4.9 Bug release (1.0.5.2)

3. Downloading of emails (SubType 749) is possible.

#### 4.10 Bug release (1.0.5.1)

1. Fixed Chrome bug with copying/moving multiple items in the LL Navigator tree

#### 4.11 Feature and bug release (1.0.5.0)

1. Change sorting order for items.  
Containers like folders and projects are listed at the top (ordered in alphabetical order by name) and then non-containers like documents, workflow maps, etc... are listed (also ordered alphabetically by name).
2. Fix bug with download processes exceeding the maximum number of configured threads.  
Both the uploading and downloading will use the specified number of threads as a threshold.
3. Drag and drop allows moving and copying content within Livelink.  
Note: the user must have permissions in Livelink to move/copy the items.

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<sup>3</sup> Previously the number of download threads was the same as the maximum number of configured threads

Move from to	Folder	Compound Document	Personal Workspace	Enterprise Workspace	Project	E-mail Folder
Folder	✓	✗	✓	✓	✓	✓
Document	✓	✓	✓	✓	✓	✓
Compound Document	✓	✓	✓	✓	✓	✓
Project	✓	✗	✓	✓	✗	✓
E-mail folder	✓	✗	✓	✓	✓	✓

For example, moving a compound document to a folder is allowed (✓) but moving a folder to a compound document is not allowed (✗).

Object types not listed are not supported for dragging and dropping in LL Navigator.

Default behavior for drag and drop is “Move”. To copy items first click the CTRL key (or SHIFT or ALT key) and then drag the item(s).

4. Increased thresholds for uploading files on Chrome: 250 MB per individual file and 500 MB for the set of documents (previous thresholds were 25 MB and 250 MB respectively).
5. Show modification times in hh.mm to align with standard Livelink behaviour
6. Drag and drop from the desktop to the Navigator tree displays “Copy” (was incorrectly displayed as “Move”) on Chrome.
7. Fixed item count for Projects and Tasks.
8. Fixed item count for container objects with shortcuts.
9. Several user interface changes:
  - a. add checkbox to select all or select none of the items in the navigator tree
  - b. upload statistics are displayed in the right hand pane (previously used popup window)
  - c. download statistics are displayed in the right hand pane (previously used popup window)
  - d. improved indication of the selected source item(s) and target item during a drag and drop operation by marking entire row
  - e. avoid separate popup windows for 0 B files and files exceeding maximum size
  - f. reduce number of popup windows when folders /documents exist.
  - g. increased size of the drop area
  - h. button to cancel upload or download requests
  - i. improved error reporting for failed uploads
  - k. intermediate updates to the navigation tree when multiple items are deleted to show delete progress for multiple items.
  - l. consistent location on the screen for displaying contextual instructions. The same applies to status information updates that are also shown in one consistent location on the screen.
  - m. Items are shown without a checkbox in the upload statistics pane.
10. Allow uploading of empty folder structures
11. Specific changes in the standard Livelink view (create new items, delete items) are automatically reflected in the LL Navigator tree when the item is already expanded. When an item is not expanded in the tree the synchronization is not automatically executed to reduce load on the Livelink system.

Note: not all changes are automatically detected. For example, creation of a new project does not automatically refresh the navigator tree.

12. Increased resilience for infrastructure related problems. For example, in case of an http 504 response the request is automatically repeated (with a default maximum of 2 times).
13. Improved resilience when a document is renamed or removed on the file system between selecting the items and uploading the items. For instance, this may occur when a different person deletes the selected items on the file server whilst uploading the files. The previous LL Navigator version 1.0.4 would become unresponsive.
14. Uploading displays the progress per individual item.
15. Folders uploaded into a compound document are skipped (plus the nested content). Documents directly uploaded into a compound document will be processed.

#### 4.12 Initial release (1.0)

1. Show Livelink content in a browser using a Windows Explorer like interface
2. Perform 80 % of regular tasks such as create new documents, compound documents or folders, view documents and browse in a highly efficient way. Delete multiple items is various locations in a single request.
3. Easily switch between the LL Navigator tree and standard Livelink view.
4. Upload multiple documents from desktop to Livelink through drag and drop or through a selection window.
5. Drag and drop folder structures (including nested folders and documents) from the desktop to Livelink (only on Chrome).
6. Download multiple files (from different locations in Livelink) with a single action.
7. Optimised for performance by using parallel processes to interact with Livelink, use of caching and use of Ajax technology.
8. Throttling of number of parallel processes (default 6), maximum file size (default 25 MB) and total volume of the document set (default 250 MB) avoids deterioration of the Livelink service.
9. No software installation on the desktop or server software.
10. Prepared for internationalization by use of an embedded resource file.
11. Reduce navigation related requests by making optimal use of the available Livelink favourites functionality.
12. When a user is using the standard Livelink view and opens LL Navigator the “Last Location” functionality allows a user to directly open that same page in LL Navigator without manually clicking through the hierarchy.

## 5. Known Issues

This section lists known issues categorized per topic.

### 5.1 Known issues: General

1. [Only for Livelink 9.7.x]  
Upon opening LL Navigator the Personal Workspace, Enterprise Workspace and the Livelink Favourites are displayed without item count. This is by design to reduce the load on the Livelink server. Upon opening of a node the details are retrieved and the item count is properly displayed.
2. The items in a Collection are not shown. Users need to click on the link to the item to display the items in the standard Livelink view.
3. When moving multiple items and specifying category information the error message “There are multiple categories associated with selected items”. This same message is also displayed in standard Livelink when moving multiple items using a browser.  
If the categories need to be set (e.g. Original, Destination, Merged) select a single item.
4. If an item is present in two or more different favourites changes will be applied to only one of the favourites.
5. [ Only for LL Navigator versions 1.2 and earlier]<sup>4</sup>  
Download is only possible for files and/or emails. It is not possible to download folders (or E-mail folder or compound documents or projects) with the nested content.
6. The % character in document names is replaced by an underscore character upon downloading. This is not caused by LL Navigator. This is the standard behavior of Livelink 9.7.x.
7. [Only for LL Navigator 1.0.6.0 and up]  
The subject field for emails in E-mail folders on Livelink 9.7.0 starts with an empty space character. This is standard behaviour of Livelink 9.7.0.
8. [Only for LL Navigator 1.2.0.3 and up]  
The zip file generated using Download & Zip contains the modification date for the short cut to a document or email and not the modification date of the target document or email.
9. [Only for LL Navigator 1.2 and up]  
LL Navigator shows a popup message when the user does not have access to the Enterprise Workspace. The LL Navigator tree is not shown and the user cannot use LL Navigator.  
Workaround: grant the user See + See Contents permissions on the Enterprise Workspace item.  
Make sure to set “Apply To” = “This Item”.

### 5.2 Known issues: Internet Explorer 8 and 9

Note: This section also applies to IE11 when it is set to run in IE8 or IE9 mode

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<sup>4</sup> The “Download & Zip” capability of LL Navigator 1.2.0.3 and up allows users to download complete folder structures.

1. Internet Explorer 8 and 9 (hereafter referred to as IE8 and IE9) do not support HTML5. Hence functionality that depends on HTML5 such as drag and drop, upload / download multiple files, extract email metadata, download & zip, ... is not available on IE8 and IE9. As a result the "Upload" and "Download" views are disabled.
2. Increasing / reducing the area of the standard Livelink view is not possible on IE8 and IE9.
3. The "Last Location" functionality does not work on IE8 and IE9.
4. Adding a new Favourite does not refresh automatically. The user needs to collapse and then expand the Favourites to see the newly added favourite.

### 5.3 Known issues: Internet Explorer 10 and 11

1. Internet Explorer 10 and 11 (hereafter referred to as IE10 and IE11) do not allow drag and drop of folder structures (unlike Chrome). IE 10 and IE 11 only allow dragging of multiple documents.
2. Drag and drop from the desktop shows "Move" whereas the operation is a "Copy".

### 5.4 Known issues: Chrome

1. The standard Chrome popup window may contain a checkbox for "Prevent this page from creating additional dialogs."  
When the checkbox is selected this will affect displaying of error messages.  
In case a user unintentionally has selected the option it can be reverted by re-starting Chrome.
2. Selecting complex folder structures located on slow file servers and/or connected through high latency network links may result in poor performance before the details are shown.
3. If Livelink is accessed through an https link and the user displays Livelink content in the standard Livelink pane then clicking on a standard Livelink navigation menu like "Users and Groups" may not appear to work if these navigation links are http based. This is due to the Chrome security settings for mixed content. Note: this behavior only occurs when the existing Livelink system mixes http and https links.
4. Downloading multiple documents may require the user to allow explicitly allow this. This depends on the security configuration of the Chrome browser (Chrome://settings/contentExceptions#multiple-automatic-downloads).
5. On Livelink instances using integrated windows authentication file uploads may traverse the network twice (when using Kerberos) or three times (when using NTLM) when the TCP connection is not kept open. The first time the file is uploaded the web server returns an http 401 response, the browser then needs to upload the same file again and include the security credentials. This behavior does NOT occur when Livelink authentication is used or when the TCP connections are kept open.

### 5.5 Known issues: Opera

1. See section 5.4 Chrome

## 5.6 Known issues: FireFox

1. FireFox only allows drag and drop of files. Dragging of folders is not supported.

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