OPENTEXT[™]

Unleashing the Power of Information



Management Server internals

Pagebuilder, Publication, Clean up live server

Martin Richter Hamburg, May 18th, 2015

Agenda

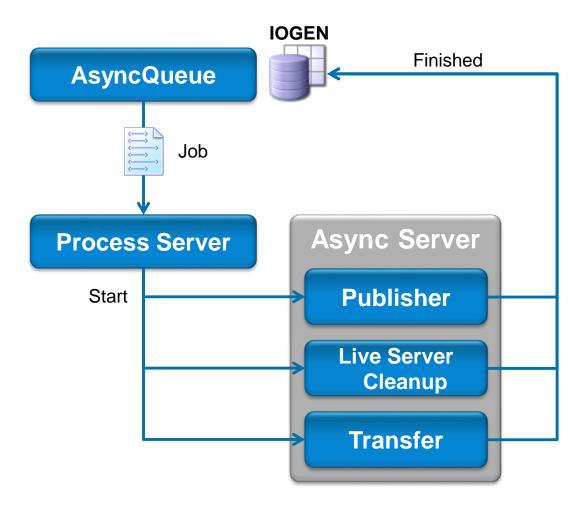
- Publish Pages
 - Publisher, PageBuilder, Transfer
 - Pages, Render Tags, Pre-/RDExecute, Elements
- Delete Pages
 - Garbage collection, workflow delete, orphaned pages
- Related Pages
- PreExecute / RDExecute
 - Overview, Debugging



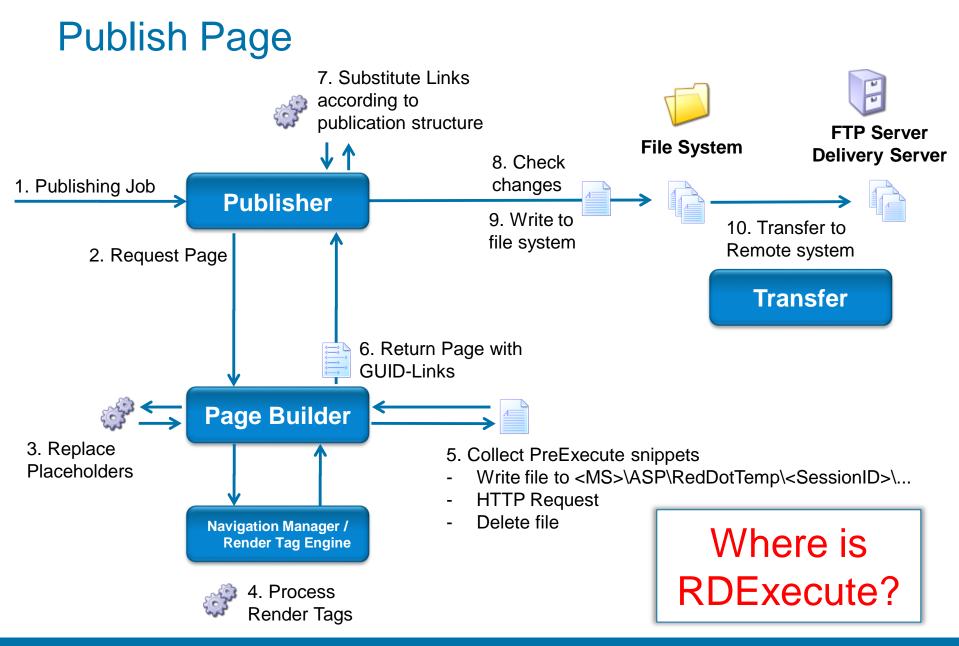
Publish Pages



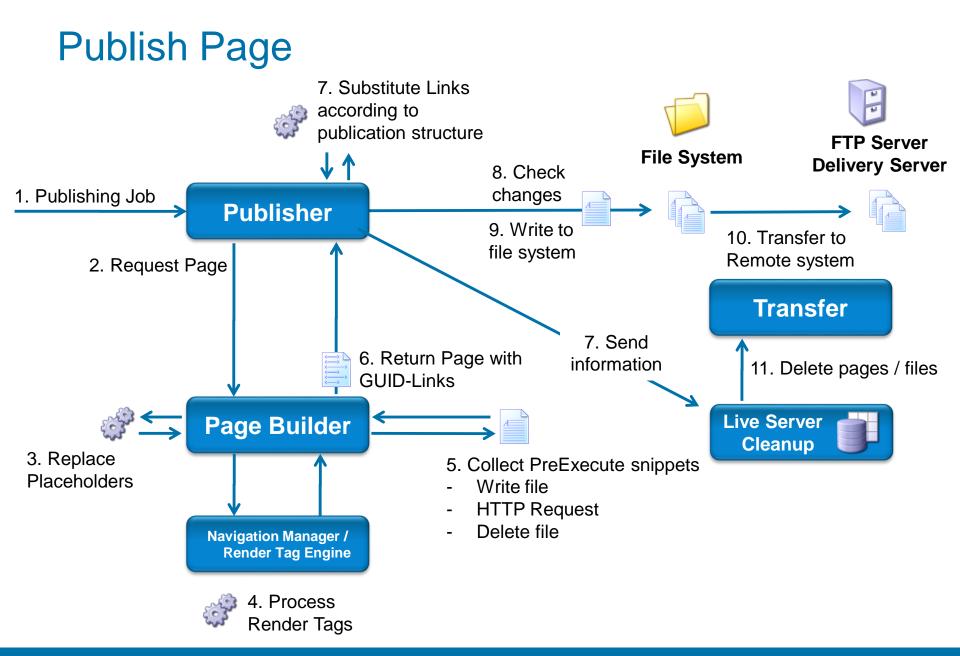
Publish Page







OPENTEXT[®]

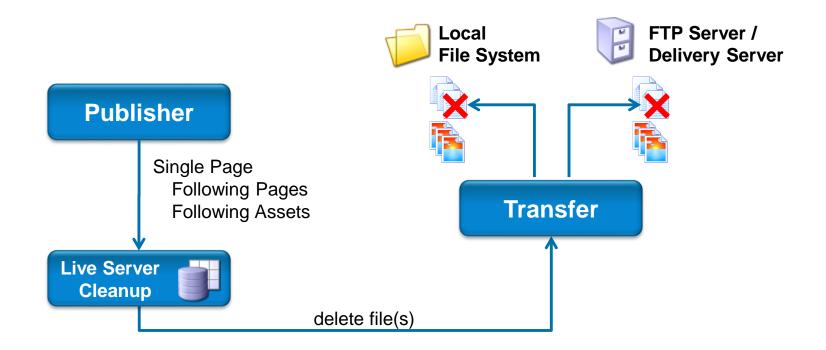


OPENTEXT^{**}

Delete Pages



Delete Page





Publisher – collect information for cleaner index

During publishing of a page

- All relevant information for page is gathered (file name, publishing target, path, language and project variant ...)
- All following pages are gathered (only basic information like page guid, link, ...)
- All assets are gathered
- Information is written in a file in RedDotTemp folder

Information is xml style:

```
<PAGEINFO pageguid="057239F96D5A4EDAAC98A2691E5F1E63">
<LINKINFO></LINKINFO>
<IMAGEINFO></IMAGEINFO>
</PAGEINFO>
```



Cleaner – process information from publisher

- Cleaner is scanning files in RedDotTemp folder
- Live server cleaning index will be updated:
 - No longer existing connections will be removed
 - Pages/assets now no longer connected will be marked
 - New pages and connections will be added
 - Page delete action removes all connections to the deleted page
- Marked pages/assets will be checked:
 - If still not connected, entry will be deleted and page/asset is marked for deletion
 - Following pages/assets of pages marked for deletion will be checked recursive



Transfer – Handle files on live server

- Pages/assets that are marked for deletion will be removed in RedDotTemp if publishing target is DS or FTP
- Pages/assets that are marked for deletion will be removed directly on live system if publishing target is local or UNC
- If file name in DS project is unique within project and only group has been changed, file is not deleted from DS
- In all other cases, delete list will be created for each DS group containing deleted files and send to DS



Cleanup strategies

Two approaches

- 1. Garbage collection approach
 - Remove files if you are sure that they are not used anymore
- 2. Workflow approach
 - Delete first ask later



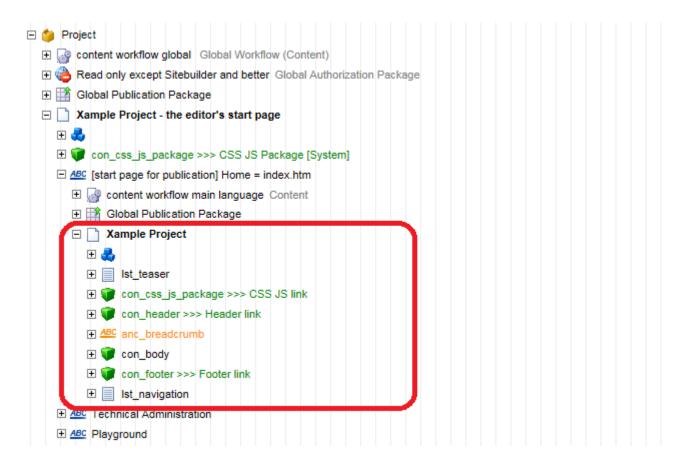
Garbage Collection Approach

Publishing has two phases

- 1. Publish pages = write files
 - Cleaner index registers all published pages
 - Cleaner index registers all references
- 2. Cleanup = remove files
 - Cleaner calculates to be deleted files



No liveserver cleanup for subtree publishing





Liveserver cleanup begins at root page

🖯 🍅 Pr	roject	
🕀 🕞	content workflow global Global Workflow (Content)	
🕀 🕀	Read only except Sitebuilder and better Global Authorization Package	start publication here
🕀 📑	Global Publication Package	
	Xample Project - the editor's start page	
÷.	8	
÷ (🕡 con_css_js_package >>> CSS JS Package [System]	
Ξ.	ABC [start page for publication] Home = index.htm	
	🗉 🎯 content workflow main language Content	
	Global Publication Package	
	🖃 📄 Xample Project	
	🗄 🚭	
	⊡ 🕡 con_css_js_package >>> CSS JS link	
	🕀 💗 con_header >>> Header link	
	<u>ABC</u> anc_breadcrumb	
	🕀 💗 con_body	
Ξ.	ABC Technical Administration	
	🕀 📑 Global Publication Package	
	Technical Administration	
	🕀 🚓	
	⊕ 🕡 con_css_js_package >>> CSS JS Package [System]	
	ABC Shared Components	
	<u>ABC</u> CSS	
	<u>ABC</u> JS	
	ABC Single Pages Publish Separately	
Ξ.	ABC Playground	
	Global Publication Package	
	🗆 🗋 Playground	
	🕀 🚓	
	🕀 💗 con_css_js_package >>> CSS JS Package [System]	
	<u>ABC</u> anc_dyn_links	
	<u>ABC</u> anc_dyn_links	
	<u>ABC</u> anc_dyn_links	
		OpenText

How not to publish unwanted pages

Content Classes -> Templates -> Assign Project Variants

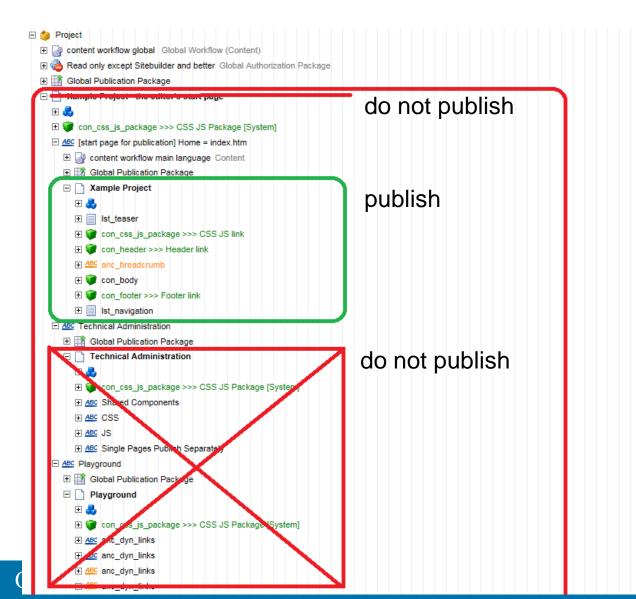


- Start publication at root node
- "Publish No"-following pages will be published
- Eliminate/Hide unwanted links for publishing
 - example:

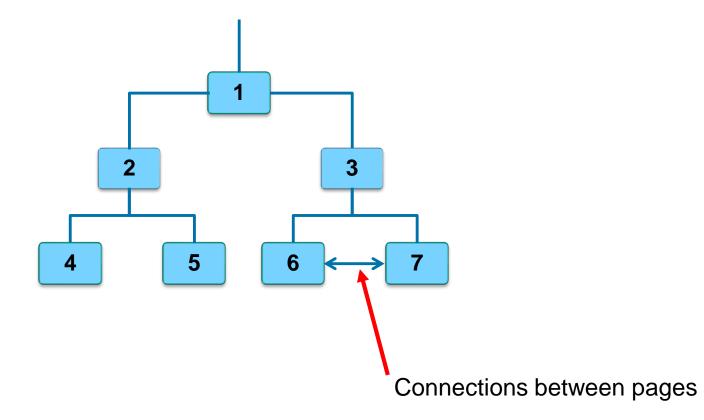
```
<reddot:cms>
</if>
</uevy valuea="Context:CurrentRenderMode" operator="!=" valueb="Int:2"><htmltext>
</uevy valuea="Context:CurrentRenderMode" operator="!=" valueb="Int:2"><htmltext>
</uevy valuea="Context:CurrentRenderMode" operator="!=" valueb="Int:2"><htmltext>
</uevy valuea="Context:CurrentRenderMode" operator="!=" valueb="Int:2"><htmltext>
</uevy valuea="Context:CurrentRenderMode" operator="!=" valueb="Int:2"></uevy valuea="Context:CurrentRenderMode" valueb="Valueb" valueb="Valueb="Valueb" valueb="Valueb" valueb="Valu
```



Liveserver cleanup begins at root page

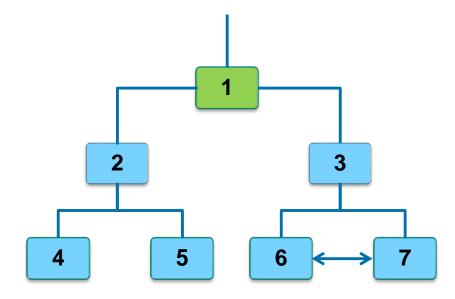


Structure with additional cross-links



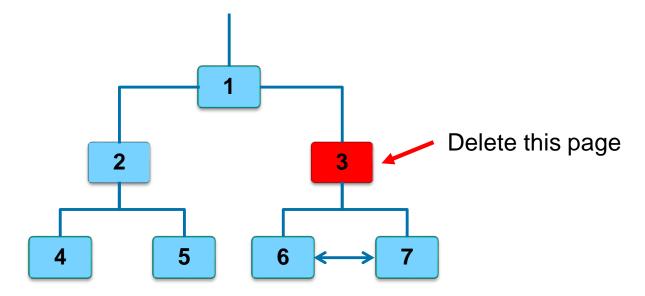


Publish with following pages



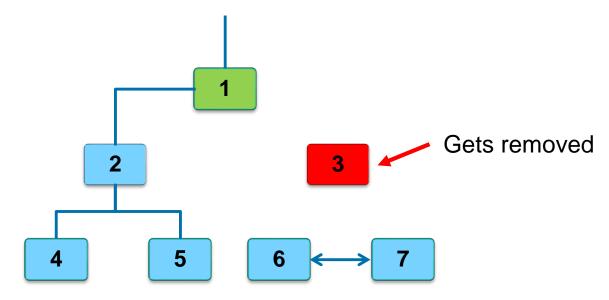


Delete a page so that a substructure remains



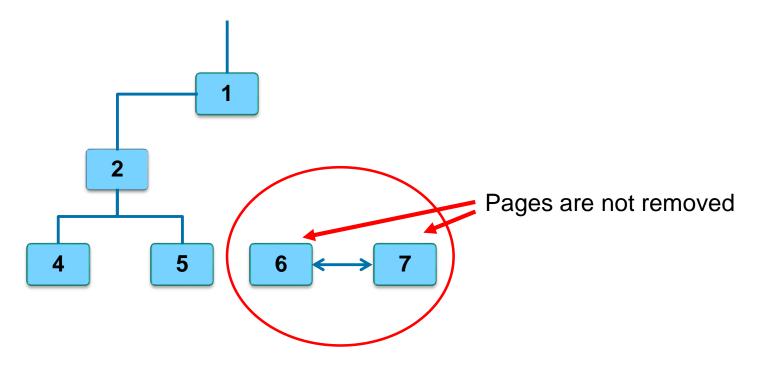


Publish with following pages





Interconnected substructure is not deleted!





How to remove orphaned pages

Purge orphans with CLEANER action="delete"

<PROJECT>

<CLEANER action="delete" projectvariantguid="[PROJECT_VARIANT_GUID]" languagevariantguid="[LANGUAGE_VARIANT_GUID]"> <EMAIL subject="[MAIL_SUBJECT]" userguid="[!guid_user!]"> <![CDATA[You can insert an optional email text here.]]> </EMAIL> </CLEANER>



How to detect orphaned pages ("Dry Run")

Detect orphans with CLEANER action="list"

<PROJECT>

<CLEANER action="list" projectvariantguid="[PROJECT_VARIANT_GUID]" languagevariantguid="[LANGUAGE_VARIANT_GUID]"> <EMAIL subject="[MAIL_SUBJECT]" userguid="[!guid_user!]"> <![CDATA[You can insert an optional email text here.]]> </EMAIL> </CLEANER>



How to detect remaining connections

- Garbage collection says: If a page is not deleted, it is still used by another page
- Retrieve remaining connections from the cleaner index
 - Show connections to a page
 - <CLEANER action="listallpagesto" projectguid="[PROJECT_GUID]" entryid="[page_id]" />
 - Show connections to a page or file
 - <CLEANER action="listallpagesto" projectvariantguid="[PROJECT_VARIANT_GUID]" entryid="[file_name]" />



Garbage Collection Approach

Summary

- Start project publication at project root
- Set "Publish No" for unwanted pages
- Project publication deletes unused pages
- Purge orphans with CLEANER action="delete"



Workflow publishing

- Delete first ask later
- Workflow publication on Page Deleted

🖃 🍅 Project		
E 🔐 Global content workflow Global Workflow (Content)		
🕀 🙀 Page Created		
🕀 浸 Page Changed		
 □ Page Deleted □ I the server Start Publication 		
E page connected to Link		
E 😼 Page Disconnected from Link Publish		
E por Page Translated		
Name: remove deleted pages from live ser ×		
Project variants to be published:		

HTML for Delivery Server

HTML for local file system publication

- Removes deleted pages
- Publishes related pages

OPENTEXT^{**}

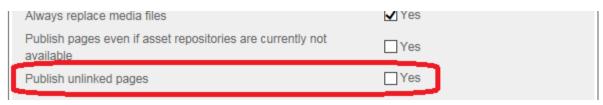


Related pages

Related pages

Note: avoid publishing unlinked pages

Publishing option: publish unlinked pages



- If selected:
 - free and other unlinked pages can be published.
 - published following pages of a deleted page will not be deleted from the live server.



Planning: new publication option

- Direct cleanup option
- Delete-page-publication option available without workflow
- Planned for Q3 / CY15



Related Pages



Related pages

- Related pages are all pages that
 - make use of a page
 - may be affected by changes of the page
- Unchanged related pages are not transferred to the live server



Related pages

- Checked:
 - Project structure
 - Links
 - References
- Checked as good as possible:
 - Template code
- Not checked:
 - Links in text elements
 - Project content element
 - Reference page from other project
 - Navigation templates
 - Render tags

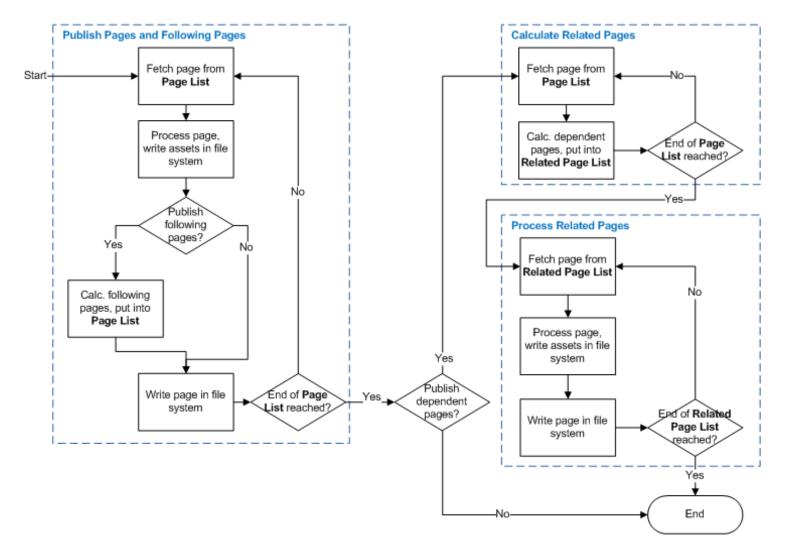
Options

- Add Cleaner index information to related pages list
 - RDServer.ini
 [PUBLISHER]
 checklsdatabase=1
- Template code check
 - Always update for changes
 - Project option

Use pessimistic approach for checking related pages



Publishing pages and related pages





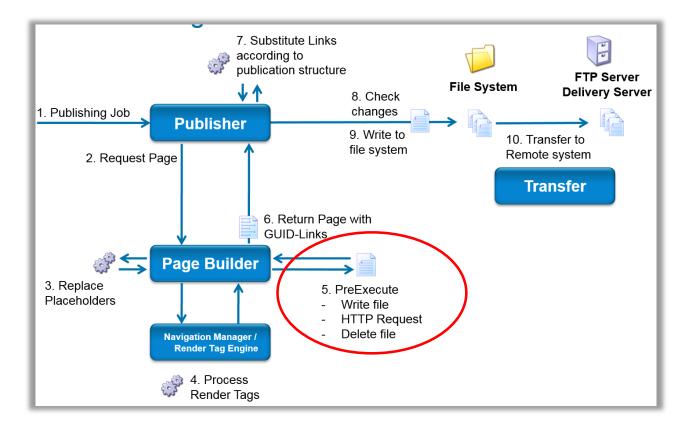
PreExecute / RDExecute



Overview PreExecute / RDExecute

PreExecute

Process script code before a page is published

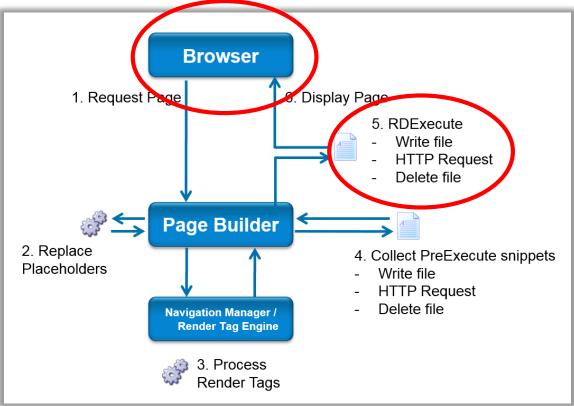




Overview PreExecute / RDExecute

RDExecute

Have correct preview if published pages are script code pages





Overview PreExecute / RDExecute

- PreExecute
 - Usage: Process script code before a page is published
 - Used in Active Templates
 - Publish the result of the processed script code
 - Caching will be prohibited by
 - RedDots
 - Block marks
 - Render mode evaluation
 - Several types of Info elements (date/time, ...)

RDExecute

- Usage: Have correct preview if published pages are script code pages
- Process the whole page
- Displays the results in SmartEdit and page preview
- RDExecute and PreExecute in one template
 - same or different script languages possible

Enable PreExecute / RDExecute debugging

- When running a PreExecute or a RDExecute page, a temporary file is created in <MS>\ASP\RedDotTemp\<SessionID>\...
- The file is deleted immediately after completion
- To debug set the 2⁸ bit to the flags attribute in RDSERVER.INI file
 - [Defaults] flags=256
- RDExecute: Flag is cached in ASP session...



Debug PreExecute / RDExecute

- Call PreExecute or RDExecute page in preview or SmartEdit
- Folder <MS>\ASP\RedDotTemp\<SessionID>
- PreExecute files: PreExecute_<preview_call_guid>_<project_guid>_<page_guid>_temp.<ext>

RDExecute files:

rdexecutetemp_se_<preview_call_guid>_<project_guid>_<page_guid>_temp.<ext>

 Call PreExecute or RDExecute page manually in the browser



OPENTEXT[™] www.opentext.com



facebook.com/opentext

In <u>linkedin.com/company/opentext</u>