



MODULE SUITE

RELEASE NOTES

version 2.3.0

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CONTENTS

Version 2.3.0 - Release notes	6
Major Changes in version 2.3.0	6
Beautiful WebForms Form Builder	6
Content Script.....	6
All Enhancements in version 2.3.0	7
Issues Resolved in version 2.3.0	7
Major Changes in version 2.2.0	9
License	9
Beautiful WebForms Form Builder	9
New Content Script APIs.....	10
All Enhancements in version 2.2.0	10
Issues Resolved in version 2.2.0	11
Major Changes in version 2.1.0	12
License	12
Beautiful WebForms library of widgets.....	12
Beautiful WebForms Studio	13
New Content Script APIs.....	13
All Enhancements in version 2.1.0	13
Issues Resolved in version 2.1.0	14
Major Changes in version 2.0.0	15
Support for Content Server 16	15
Completely renewed development environments and editors	15
Full revamp of Beautiful WebForms widgets and templates libraries	16
New Content Script APIs.....	16
Content Script PDF API improvements.....	17
Third party dependencies upgrade	17
Weblingo override functionality.....	17
Cross-script referencing.....	17
Save views as Widgets.....	17
Workflow Query builder	17
All Enhancements in version 2.0.0	18

Issues Resolved in version 2.0.0	19
Important Notes when updating Module Suite to version 2.0.0	20
Installing the new libraries	21
PREVIOUS releases	26
Major Changes in version 1.7.0	26
Document Management (docman) API extended.....	26
Search API refactoring	26
Beautiful WebForms Views are now Container objects.....	26
REST API Controller.....	26
New Content Server GUI enhancement (am-gui) API service available.....	26
New Rendition (rend) API Service available	27
Content Script Code Snippet Library revamp	27
Introducing Document Overlay and Document Overlay Builder.....	27
Introducing Content Script Online Debugger	27
All Enhancements in version 1.7.0	27
Issues Resolved in version 1.7.0	30
All Enhancements in version 1.6.1	32
Issues Resolved in version 1.6.1	32
Major Changes in version 1.6.0	32
Content Script UI enhancing package	32
Beautiful WebForms.....	33
All Enhancements in version 1.6.0	33
Issues Resolved in version 1.6.0	34
Major Changes in version 1.5.1	34
Beautiful Removable WebForms	34
Synchronous Content Script Callbacks	34
AdLib Extension pack.....	34
Classification Extension Pack.....	34
Content Script Extension for Workflows	34
All Enhancements in version 1.5.1	34
Issues Resolved in version 1.5.1	35
Major Changes in version 1.5.0	36

Category Management.....	36
Scheduling	36
Custom Datasources for Content Server Columns.....	36
Content Script Callbacks	36
Content Script Extension: Docx manipulation service.....	37
IMPORTANT remarks when updating from earlier versions	37
Relocation of extension packages built on previous releases of Content Script	37
Usage of variable “request” in Content Scripts.....	37
Mailing Service configuration.....	38
All Enhancements in version 1.5.0	38
Issues Resolved in version 1.5.0	39
All Enhancements in version 1.4.2	39
Issues Resolved in version 1.4.2	39
Major Changes in version 1.4.1	40
Administration.....	40
Issues Resolved in version 1.4.1	40
Major Changes in version 1.4.0	41
Administration.....	41
Enhancements in version 1.4.0	41
Issues Resolved in version 1.4.0	42
Appendix a: Installing Beautiful WebForms Example pack	44

ANSWERMODULES – MODULE SUITE

VERSION 2.3.0 - RELEASE NOTES

The present document contains information regarding product enhancements, fixed issues and known issues related to AnswerModules Module Suite version 2.3.0.

MAJOR CHANGES IN VERSION 2.3.0

BEAUTIFUL WEBFORMS FORM BUILDER

FormBuilder widgets library has been deeply revised in order to further simplify WebForm views creation.

ENHANCED SUPPORT FOR INTERNATIONALIZATION

The support for forms' views internationalization has been improved. It's now possible to mark labels and other widgets' properties for being inserted into localization files. Localization files can now even be stored directly on Content Server.

INLINE FORMTEMPLATE MANIPULATION

FormBuilder now supports the inline creation of fields of type “Set”.

CONTENT SCRIPT

AUDITABLE AND INDEXABLE

Content Script objects are now indexable (upon proper configuration in the Base Configuration).

Content Script execution is now auditable (upon proper configuration in the Base Configuration).

SCHEDULING AND CALLBACKS

Several performance enhancement related to script scheduling and both for synchronous and asynchronous callbacks.

ALL ENHANCEMENTS IN VERSION 2.3.0

ID	Scope	Description
#0000541	Content Script	Determine if a category needs to be upgraded
#0000545	Extension - AdLib	- Support overriding of job ticket output folder path
#0000540	Content Script	It's now possible to reduce the DA Load related to CSEvents management
#0000539	Content Script	It's now possible to disable CSEvents (preventing the system to record the event in the DA framework)
#0000538	Beautiful Webforms	FormBuilder now supports Set creation
#0000523	Beautiful Webforms	Form Builder should be using the "advanceMode" flag to decide whether to display the visual builder or the source code editor
#0000524	Beautiful Webforms	Form Builder layout should be preserved for BWF views edited with source code editor
#0000522	Beautiful Webforms	Form Builder should be initialized with last available Form Builder layout when opening a manually edited view
#0000495	Module Suite	Being able to override WebNodeActions using CSVVolume scripts
#0000527	Content Script	Improve UI for importing and upgrading ModuleSuite Library
#0000532	Content Script	Search service API behavior changes with OTCS 16.2 release
#0000518	Module Suite	Content Script workflow steps can now be executed through the Workflow agent
#0000525	Content Script	New API to access valid values list for Category popup fields
#0000535	Module Suite	Optimized FormView footprint on database
#0000533	Content Script	Autocompletion provides now additional information regarding existing APIs
#0000512	Extension - Docx	Initial support for PPTX files
#0000530	Beautiful Webforms	Is now possible to use SWF to create generic purposes forms
#0000511	Beautiful Webforms	Smart Drop Down DB Lookup - javascript performs too many unnecessary async calls
#0000499	Content Script	Make Content Script indexable
#0000500	Extension - Docx	Being able to update Spreadsheet and single cell formulas
#0000497	Content Script	Being able to execute a LiveReport through the "Fast" interface for SQL

ISSUES RESOLVED IN VERSION 2.3.0

ID	Scope	Description
#0000542	Content Script	Issues in creating new binders with CSSynchEvents enabled
#0000547	Content Script	Error setting FromDate and ToDate in Physical Object Template
#0000516	Beautiful Webforms	Checkbox component not correctly initialized when creating a new BWF view

ID	Scope	Description
#0000537	Beautiful Webforms	the formToMap method of the FormService might rise exceptions parsing dates
#0000519	Content Script	Default value of Content Script static variables causes "Compilation Failed" warning to be added at every save
#0000504	Beautiful Webforms	Currency Field doesn't trigger onChangeAction in IE
#0000492	Beautiful Webforms	Javascript init script for Datatable widget is missing
#0000496	Beautiful Webforms	ADN Widget's javascript init function has the "support" and "context" variables hard-coded
#0000526	Beautiful Webforms	Request parameters are not passed to Form when executed through nickname
#0000509	Content Script	Regression in GCSCategory constructor derived from #0000490
#0000513	Beautiful Webforms	"Item reference Popup" component search error after update to Module Suite 2.2
#0000534	Content Script	Content Script editor automatic code validation needs resource optimization
#0000529	Beautiful Webforms	Error exporting form view with 'None' value selected in the 'Select Template' option in Form Builder
#0000536	Module Suite	Content Script scheduling is not working properly on 16 and 16.2 (unable to un-schedule)
#0000517	Beautiful Webforms	Minor visual issues in top bar buttons in Form Builder and Content Script Editor
#0000520	Content Script	"Test" button in Content Script Editor saves the current code but executes the previous version
#0000510	Content Script	Managecallbacks script might fail with case-sensitive databases
#0000490	Content Script	GCSCategory is now CSNode aware, thus is possible to drive inheritance for sub nodes
#0000488	Content Script	docman.getNodesInContainer(..) API fails if target node contains a virtual folder
#0000491	Content Script	Virtual Folder nodes are not managed properly on CS16
#0000506	Content Script	NextUrl parameter is not passed to the execution context when executing a script using the open command
#0000508	Content Script	docman.rhRequest(..) API calls fail if Trusted Referring Websites are set in Content Server Security Parameters Admin page
#0000505	Beautiful Webforms	Form field "removeField(..)" API performs a wrong check on index
#0000507	Beautiful Webforms	Change event handlers are triggered twice
#0000503	Content Script	Execution of runCS instruction fails in callback-scripts caused by a NPE relative to CSVARS
#0000501	Beautiful Webforms	FormBuilder might fail to load on huge views
#0000494	Content Script	createRendableForm(..) API returns invalid content if IIS Application Request Routing is configured (for Brava)

ID	Scope	Description
#0000498	Content Script	OScript deserialization might fail for RecArrays

MAJOR CHANGES IN VERSION 2.2.0

LICENSE

Whenever the number of licensed seats are exceeded, the Module Suite's licensing manager starts logging a warning message for every operation performed.

BEAUTIFUL WEBFORMS FORM BUILDER

FormBuilder has been deeply revised in order to further simplify WebForm views creation.

CHEH SNIPPETS

The feature that allows a Form designer to inject Content Script snippets into CLEH scripts (OnLoad, PreSubmit, OnSubmit) now depends on the widget's configuration itself. In other words, any change applied to the widget's configuration will trigger an equivalent change into the injected piece of Content Script.



This behavior can be disabled either through the "Auto-inject code" switch, displayed at the very top of any widget's configuration panel or deleting the synchronization hash injected as part of the header of all the CLEH snippets.

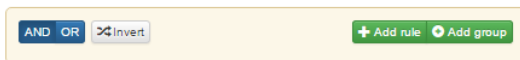
```

/***** Space Content 7282cb1b-e31b-4683-a8e8-58fcddc27f24 BEGIN *****/
//Injected by: Administrator, Content Server
//On: Tue May 02 18:22:19 CEST 2017

```

WIDGET VISIBILITY

Show If Toggle component visibility through a rule that must evaluate to true or false



A simplified widget-visibility rule builder can now be used to determine when a widget should be displayed in the form.

BUTTONS' ICONS AND COLORS

Easy to use icon-color selectors have been introduced for button-widgets.

INLINE FORMTEMPLATE MANIPULATION

Add functionality that allows Form Template manipulation (add new fields) directly from within the FormBuilder.

NEW AND UPDATED WIDGETS

Currency, Include SmartUI Widget, Chart, DocuSign, Handsontable, DropDown DB Lookup, Set ViewParams Variable, View Template Logo, Smart DropDown DB Lookup, Include Script Result, Redirect to URL, Workflow Comments, Custom Action Button, Submit Button With Param

FIELD DEFAULT VALUE

Add functionality that allows setting the default value displayed by the form widgets

ONLOAD SCRIPT RETURNS JSON DATA

CLEH script management has been modified in order to allow OnLoad script to return JSON data, thus to be used for implementing Ajax-enabled backend services for BWF-widgets (e.g. Handsontable widget).

E.g.

```
//The following snippet triggers the execution of a CLEH action through
//An Ajax call.
//The amui.ajaxAction functions accepts the following parameters :
// $elem: a jQuery element within the form
// action: the name of the action to be triggered
// actionParameters: action's parameters
// callback: a Javascript function to be executed on success (will be invoked with: data, textStatus, jqXHR)
// additionalParameters: a Javascript map to be used as additional parameters in the Ajax call
amui.ajaxAction($comp, "amhot_loadData", $comp.data("target"), function (elem, data, textStatus, jqXHR) {
    $totalComp.handsontable("loadData", data.totals);
    if($comp.data("ajaxreload")){
        $comp.handsontable("loadData", data.data);
    }
});
```

NEW CONTENT SCRIPT APIS

New Content Script APIs and API extension packages have been released. Collaboration APIs have been extensively revised and simplified. New extension packages include:

DOCBUILDER

Allow developers to programmatically produce PDF and Word files. The new APIs are accessed through the new “docbuilder” service endpoint, available upon installation of the extension package.

CALLBACK SCRIPTS

Synchronous Callback Scripts are now executed in isolated context (a separate execution context for each script). To switch back to the previous implementation set the 3rd bit of the “amcs.core.debugEnabled” configuration bitmask to one (e.g. amcs.core.debugEnabled=4).

ALL ENHANCEMENTS IN VERSION 2.2.0

ID	Scope	Description
#0000431	Content Script	Templating service is wrapping CS Context in Templating Context when using subviews in form views
#0000440	Beautiful WebForms	Improved robustness of JQuery Interdependencies widget
#0000474	Beautiful WebForms	Improved accuracy for Form to PDF rendering through HTML to PDF rendition
#0000466	Beautiful WebForms	User by Login revised in order to avoid preload of all users if no filter is selected

ID	Scope	Description
#0000460	Content Script	The Callback-Scripts management class has been refactored in order to switch from a single execution context mode to a fully separated set of contexts
#0000465	Beautiful WebForms	Enhance visibility of CSS grid columns
#0000445	Mail Service	Mail Service - Added support for Receipt Request and other SMTP headers
#0000446	Mail Service	Mail Service - Added support for BCC addresses
#0000485	GUI Service	SQLQueryRowProvider features methods for executing paginated SQL Queries
#0000484	Content Script	SqlService ext-pack features methods for executing paginated SQL Queries
#0000469	Beautiful WebForms	CLEH widgets snippets are now standard CS snippets, evaluated using widget's configuration
#0000478	Content Script	Major enhancement for Collaboration service
#0000444	Beautiful WebForms	New widget for currencies
#0000463	Content Script	The information related with the original user ID and username are now available in the script Execution Context
#0000475	Content Script	Improved performances of Templating service - producePDF(..) API

ISSUES RESOLVED IN VERSION 2.2.0

ID	Scope	Description
#0000429	Beautiful WebForms	am_printFix function in am_init file is not working properly (Form to PDF)
#0000439	Beautiful WebForms	Jquery interdependencies widget does not support binding to Radio Basic widget
#0000457	Beautiful WebForms	JS Conditional Container v1 escapes "operator" configuration causing a javascript error in client.
#0000438	Beautiful WebForms	User by Login widget not working correctly on environments with case sensitive database
#0000459	Module Suite	Wrong documentation in Base Configuration for amcs.core.callbackSynchEventsEnabled flag
#0000473	Beautiful WebForms	am_CssViewDependencies and am_JsonViewDependencies variables in the viewParams map are overridden whenever a view invoke a CLEH action (the information regarding Form's static resources is lost)
#0000476	Beautiful WebForms	PDFPreview tool not working on OTCS 16.0.3
#0000468	Beautiful WebForms	Default Submit Button widget is not initialized correctly when creating a new view
#0000442	Content Script	Email setCharset(..) API has wrong help text
#0000441	Content Script	Email "distribute" functionality sends same notification multiple times to the same recipients
#0000481	Content Script	Docman copyNode(..) API adds a new version to copied node as default behavior

ID	Scope	Description
#0000482	Content Script	Docman moveNode(..) API adds a new version to node as default behavior
#0000483	Content Script	Docman copyNode(..) API only copies the last version of the node as default behavior
#0000437	Content Script	Reading excel cell values for spreadsheet columns after AA returns null values
#0000452	Content Script	Enabling Content Script scheduling with default configuration fails
#0000428	Content Script	Content Script autocomplete function fails if script csvars is empty
#0000454	GUI Service	Performance issues due to a regression in version 2.1
#0000464	Content Script	Regression in ServiceWrapperFactory
#0000453	Content Script	Issues using CSSearchQueryBuilder when search slices have been renamed
#0000479	Content Script	It's now possible to proper cast a CSNode to its subclasses (e.g. node as CSDocument)
#0000477	Beautiful WebForms	Empty value for amSaveValues property of form objects returned by getFormInfo method
#0000472	ESign	Unable to reject on multi-user step
#0000471	Beautiful WebForms	Mapping Script widget attached to Smart Dropdown clear fields on reload if AJAX initialization is disabled on Smart Dropdown
#0000462	Content Script	Callback scripts: NodeCreate, NodeCreatePre, NodeUpdate are not managing rollback properly
#0000461	Content Script	Wrong parent-callback event registered on NodeCreatePre event
#0000451	Content Script	Request parameters are not passed to Content Script when executed through nickname
#0000472	ESign	ESign Service is not working properly with ModuleSuite version > 2.1
#0000448	Beautiful WebForms	ESign Widget is not working properly with ModuleSuite version > 2.1
#0000447	Beautiful WebForms	amSaveValues are not updated on the basis of the form object

MAJOR CHANGES IN VERSION 2.1.0

LICENSE

Module Suite's activation license now keeps in consideration: the system's fingerprint and the number of purchased seats.

BEAUTIFUL WEBFORMS LIBRARY OF WIDGETS

The Beautiful WebForms library of input widgets has been significantly improved and simplified. The library comprises now more than ninety elements. The widgets/view template architecture has been revised in order to speed up and favor the development of new input widgets by customers and partners. Widgets' external dependencies can now be easily tracked allowing developer to focus only on core functionalities.

BEAUTIFUL WEBFORMS STUDIO

Beautiful WebForm Studio wizard is now shipped with Module Suite. The Studio can be accessed directly from the Content Script Volumes (CSVOLUME:CSTools:Beautiful WebForms Studio).

NEW CONTENT SCRIPT APIS

New Content Script APIs and API extension packages have been released. New extension packages include:

WEB-SERVICES API EXTENSION PACK

Content Script now features a complete set of APIs for consuming both REST and SOAP web services. The new APIs are accessed through the new "csws" service endpoint, available upon installation of the extension package.

ALL ENHANCEMENTS IN VERSION 2.1.0

ID	Scope	Description
#0000427	Script Console	It is now possible to export a Tomcat 8 compatible configuration using exportWar.cs script
#0000413	Beautiful Webforms	Introduce a simpler way of managing the loading of static dependencies for form views
#0000423	Beautiful Webforms	PDF web viewer tool based on pdf.js
#0000418	Beautiful Webforms	New validation constraint: Content Script (remote invocation)
#0000410	Beautiful Webforms	Support for TKL and ADN TKL form fields
#0000414	Content Script	Is now possible to execute a Content Script programmatically. New API: docman.runContentScript()
#0000377	Content Script	Add possibility to un-assign task
#0000380	Content Script	New API: CSUser.getDepartmentGroup()
#0000381	Content Script	New API: users.getGroup(Long groupId)
#0000382	Content Script	Add library snippet for Smart Drop Down backend service
#0000388	Beautiful Webforms	When loading a submitted form with date fields with the "show time" flag active seconds information is lost.
#0000392	Beautiful Webforms	Add support for form page repositioning to first error when a client side validation error occurs.
#0000393	Beautiful Webforms	Read-only checkbox layout should be similar to active checkbox

ISSUES RESOLVED IN VERSION 2.1.0

ID	Scope	Description
#0000422	Beautiful Webforms	Checkbox widgets set to "readonly" lose the selected value on page reload
#0000421	Beautiful Webforms	Radio components in forms using BWF library V1 not working after upgrade from version 1.7.0 to 2.0
#0000426	Beautiful Webforms	Multiple collapsible Panel Containers included in sub-views collapse wrong panel when clicked
#0000425	Extension - LDAP	LDAP Service fails to initialize profile with 'secure' parameter set to 'false'
#0000419	Beautiful Webforms	Submit button clicked after the execution of an action which returns a file keep triggering the same action
#0000411	Beautiful Webforms	Regression in version 2.0.0: V1 am_init.js file has been overridden
#0000416	Beautiful Webforms	OnChange Script BWF snippet does not work with fields with multiplicity higher than one
#0000412	Content Script	Sql Service ignores parameters of type GString
#0000383	Beautiful Webforms	OnChangeAction snippet does not trigger with Radio Basic components
#0000389	Beautiful Webforms	If a redirect instruction is used in the AfterSubmit script of a form workflow step the workflow's step won't be completed
#0000385	Beautiful Webforms	When loading a submitted form with date fields with the "show time" flag active time information is lost
#0000394	Extension - Docx	Field updating on Office documents fails when there are properties with spaces in the property name
#0000408	Content Script	Inline API Docs panel in Content Script Editor minimizes after clicking on any link
#0000395	Extension - Docx	Field updating on Office documents fails when there are properties with long property name
#0000397	Content Script	Outdated configuration details for callbacks in Content Script inline documentation
#0000399	Beautiful Webforms	Selecting left or right position for labels in components in a Grid (Bravo) container causes a wrong positioning of the labels
#0000400	Extension - Docx	Error creating an empty XLSX spreadsheet
#0000398	Content Script	Error with template.producePDF(...) when a File is passed as the template.
#0000401	Content Script	Accessing admin pages generates a trace file when you have an error coming from underlying DBMS
#0000404	Module Suite	CSCategory getAttributes returns just the name for attributes inside a set
#0000403	Content Script	Not able to rollback a transaction using nodecallbacks
#0000407	Beautiful Webforms	Form fields requireness is not properly managed when retrieving form object with forms.getFormInfo API
#0000405	Content Script	Disable Weblingo overwrite without having to rise an Exception
#0000406	Content Script	template.producePDF(..) API causes a resource leak

ID	Scope	Description
#0000386	Beautiful Webforms	Wrong values in submitted checkbox and user fields when using the forms.submitForm(..) API
#0000387	Content Script	It's no longer possible to use a Content Script service as a Content Server standard REST
	Content Script	Impersonate ObjectFactory is not working (only Admin can use the feature)
#0000390	Content Script	ResourceManager rises an NPE when amcs.core.tempFilePath has not been specified

MAJOR CHANGES IN VERSION 2.0.0

SUPPORT FOR CONTENT SERVER 16

Module Suite 2.0.0 now includes support for Content Server version 16.

Content Script objects are available and executable from the new Smart UI.

Content Scripts can be used to build Smart UI tiles, and are available within the Perspective Builder when creating new Smart UI perspectives.

Currently supported platforms include:

- Content Server 10.0.x
- Content Server 10.5.x
- Content Server 16

COMPLETELY RENEWED DEVELOPMENT ENVIRONMENTS AND EDITORS

All Module Suite integrated development environments, including

- Beautiful WebForms Form Builder,
- Content Script Editor,
- Template Editor,
- Content Script Snippet Editor,
- Form Widget Editor

have been completely renewed, and ergonomics have been greatly improved.

Beautiful WebForms Form Builder now features additional controls for multiple selection when positioning, editing or deleting components in the working area, as well as support for the new functionalities of the

components in the library. Important functionalities (template selection, associated Content Script editing) have been made directly accessible from the main editor panel.

Content Script Editor content assist functionalities have been improved.

FULL REVAMP OF BEAUTIFUL WEBFORMS WIDGETS AND TEMPLATES LIBRARIES

Form Widget in the Beautiful WebForms component library now feature

- Component libraries are now versioned in super-libraries. Module Suite 2.0.0 ships with library version 2. Version 1 corresponds to components available in Module Suite 1.7. Users are free to create their own library versions.
- All components have been refactored to provide a clean separation between presentation and dynamic behavior (to ensure compatibility with new CS16 Smart UI)
- Complex components which require backend scripting code now feature the possibility to automatically inject the custom code (reduces need to manually edit scripts)
- All components have seen their customization capabilities improved and extended.

NEW CONTENT SCRIPT APIS

New Content Script APIs and API extension packages have been released, for a total of 400+ new documented APIs. New extension packages include:

RECORDS MANAGEMENT API EXTENSION PACK

Content Script now features a complete set of APIs for Content Server Records Management. The new APIs are accessed through the new *"recman"* service endpoint, available upon installation of the extension package.

PHYSICAL OBJECTS API EXTENSION PACK

Content Script now features a complete set of APIs for Content Server Physical Objects. The new APIs are accessed through the new *"physobj"* service endpoint, available upon installation of the extension package.

LDAP INTEGRATION API EXTENSION PACK

Content Script now features a basic set of APIs that allow to perform queries on any LDAP server. The new APIs are accessed through the new *"ldap"* service endpoint, available upon installation of the extension package.

SQL EXTENSION PACK

Content Script now features a new API to perform database queries against the Content Server database, as well as over external databases. The new API provides support for query parameter bindings and SQL expression templates, and can be accessed through the new *"sql"* service endpoint, available upon installation of the extension package.

CONTENT SCRIPT PDF API IMPROVEMENTS

A new set of APIs is now available within the “pdf” service endpoint. The new APIs allow to interact with PDF form documents, by extracting form information and data, automatically filling in form fields, and finalizing a PDF form.

THIRD PARTY DEPENDENCIES UPGRADE

Most third party dependencies included in the Module Suite release have been updated to the latest stable release. A complete list of the dependencies can be found within each module’s installation folder.

WEBLINGO OVERRIDE FUNCTIONALITY

A new advanced functionality, which allows administrators to configure overriding of any Content Server weblingo file, is now available as part of Content Script version 2.0.0.

CROSS-SCRIPT REFERENCING

Any Content Script object that has been assigned a nickname within a specific namespace (“CSxxxx”) can now be referenced directly by nickname within a second Content Script. This functionality allows, for example, to create function libraries without the overhead of executing the second script every time.

SAVE VIEWS AS WIDGETS

Views created with the Beautiful WebForms builder can now be saved as a custom “composite” widgets and reused through the usual drag & drop process within another view. When such a composite widget is dropped within a view, it will be split in its basic parts, and each part will be configurable separately.

Composite widgets can be managed within the widget library as standard Beautiful WebForms widgets.

WORKFLOW QUERY BUILDER

A new workflow query builder is available as part of the “workflow” service APIs. The builder is intended to simplify the interaction with the workflow search service.

ALL ENHANCEMENTS IN VERSION 2.0.0

ID	Scope	Description
#0000306	Module Suite	Module Suite objects are now fully compatible with Content Server transport
#0000307	Script Console	It's now possible to schedule jobs while the console is offline
#0000322	Extension - Forms	Form Package attachments are now available in Remoted Workflow Forms and submitted forms (seq)
#0000332	Beautiful Webforms	Workflow Comments form snippet now includes CLEH configuration documentation
#0000333	Content Script	Content Script objects are now restricted objects by default
#0000334	Content Script	GCSsetAttribute and GCSPrimitiveAttribute now support each{..} iteration
#0000338	Content Script	Third party javascript libraries have been updated to latest stable version.
#0000339	Beautiful Webforms	Third party javascript libraries have been updated to latest stable version.
#0000342	Content Script	It is now possible to set a group as group leader using the setLeader(..) API on the CSGroup object.
#0000344	Beautiful Webforms	It's now possible to convert form fields values to Dates
#0000345	Beautiful Webforms	Javascripts and Css resources can now be organized and included in Form Templates respecting dependencies.
#0000346	Beautiful Webforms	Form widget can now specify their own static dependencies (js, css)
#0000347	Content Script	It's now possible to create ANSTemplateFolder objects programmatically
#0000348	Beautiful Webforms	It's now possible to organize form widgets and form templates in libraries
#0000349	Extension - eSign	It's now possible to set the URL where to redirect navigation after having performed the sign step
#0000350	Script Console	Introduced the possibility to customize embedded jetty behaviour with init script
#0000351	Content Script	Enabled the possibility to control the mimetype of files returned as attachment
#0000352	Content Script	Optimize the CSResource file names.
#0000353	Content Script	Optimize the usage of "self" shortcut
#0000358	Module Suite	Initialization of logging system is now performed programmatically
#0000359	Module Suite	CSNodes can now be exported in JSON (format compatible with REST APIs)
#0000360	Content Script	Is now possible to retrieve the full path for a node
#0000367	Module Suite	Is now possible to build queries on workflows data programmatically
#0000372	Extension - Forms	Script Console now supports forms built with Beautiful WebForms libraries V2
#0000374	Script Console	Added authentication layer on Script Console web interfaces
#0000375	Script Console	Session cookies are now enabled by default in application server configuration

ISSUES RESOLVED IN VERSION 2.0.0

ID	Scope	Description
#0000305	Module Suite	Content Script TemplateFolder webnode naming conflict
#0000308	Script Console	The script used to demonstrate the Console's internal scheduling features contains an error.
#0000309	Script Console	Java Classloader conflict running console as an standalone ApplicationServer application
#0000311	Content Script	SQL queries used to implement CSVolume caching have issues with case sensitive database installation
#0000312	Content Script	RunCS is triggering unnecessary script recompilation that might impact performances
#0000313	Content Script	Error when accessing property priority of CSWorkflowAssignedTask
#0000314	Content Script	SSL Error occurs when using RHOmnia proxy under https
#0000315	Extension - Docx	importMetadata API in xlsx service does not handle exceptions correctly
#0000316	Extension - Docx	importMetadata API in xlsx service attempts to process lines with empty dataID column
#0000317	Content Script	Class loading issues on Member Services (Content Server 10.0)
#0000318	Content Script	Unexpected error may arise when executing a custom REST service
#0000319	Content Script	Content Script callback scripts are sometimes invoked twice
#0000320	Extension Forms	- Remote WebForms submission fails silently when application server and script console installation paths are on different drives
#0000324	Extension Forms	- View switching is not possible within Remote WebForms OnLoad scripts
#0000325	Extension Forms	- Checkbox components in Remote webforms do not handle events correctly
#0000326	Beautiful Webforms	Beautiful WebForms online documentation incorrectly references a non-existing "form.setValidationError(..)" API
#0000327	Beautiful Webforms	Workflow attachments folder identifier is not available in the form object when used in a user step
#0000328	Beautiful Webforms	The "Forms.createRenderableForm(..)" API calls fail if target form object is not in the current script's context scope
#0000329	Content Script	Service calls fail when executed from different thread spawned with Thread.start{..}
#0000330	Beautiful Webforms	Nesting multiple "Include Subview" components causes invalid form markup
#0000335	Content Script	Unable to send email to multiple recipients
#0000336	Content Script	The "asCSNode(..)" API does not behave in the same way as the docman API when retrieving nodes by path.
#0000337	Content Script	Unable to assign "long" values to category integer attributes
#0000341	Beautiful Webforms	SignaturePad component fails to initialize signature from pre-populated field value
#0000343	Content Script	Download link promoted function for regular documents disappears after installing Content Script

ID	Scope	Description
#0000354	Extension Forms	- Several improvements to FormBuilder and BWF Widgets
#0000355	Beautiful Webforms	Form service fails on "updateWorkflowForms(..)" if the form contains a set attribute
#0000356	Content Script	Not able to perform update or insert through runSql method if report ext is not installed (Content Server 10.0)
#0000357	Extension - PDF	Temp resources are not cleaned when extracting pages from a PDF (both as PDFs and JPGs)
#0000361	Content Script	Cron expression is not persisted when scheduling a script in advanced mode
#0000362	Module Suite	Unable to change owner of document inside Project
#0000363	Module Suite	Form set fields are not always updated within workflows
#0000364	Script Console	Script Console "loadConfig" command fails if there are disabled services in the Content Server Base configuration that is being exported.
#0000365	Script Console	Placeholder expressions in exported Base Configuration are not valid for Script Console
#0000366	Module Suite	REST API Content Script always returns 200 OK Code
#0000368	Module Suite	Node features are empty if CSNode has been loaded with "fast" API variant
#0000369	Module Suite	It's no longer possible to send an email to multiple recipients specified in to or cc
#0000370	Script Console	Wrong error page format when running on external application server
#0000371	Extension Forms	- Wrong download attachment links in sample Remote WebForms form list page
#0000373	Extension Forms	- Potential security issue with content of form hidden fields
#0000376	Extension Forms	- Form attachments are present in the "views" list in the form.amRemotePack

IMPORTANT NOTES WHEN UPDATING MODULE SUITE TO VERSION 2.0.0

Module Suite version 2.0.0 introduces a few paradigm shifts, mostly oriented to set the basis for a better support of the new Smart UI available with Content Server 16.

Noteworthy changes mainly involve Beautiful WebForms, and specifically the ways in which the libraries of widgets and templates are organized.

Module Suite version 2.0.0 introduces the concept of "*library versions*" for form widgets and form templates. When creating or editing a Beautiful WebForms view, editors must select which version of the widget library to use. The form templates should be chosen consequently (e.g. always use templates V2 with form views built using widget library V2).

Module Suite version 2.0.0 ships with two library versions:

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- **V1:** this library matches the former Module Suite 1.7.0 widget library. It has been included for backward-compatibility, and can be safely discarded for new installations.
- **V2:** upgraded version specific to Module Suite 2.0.0. Objects within this library feature:
 - o a clearer separation between widget presentation and dynamic behavior. Inline scripting has been removed from all widgets.
 - o support for new editor features (label positioning, etc.)
 - o support for dynamic dependency evaluation (third party or custom .js and .css inclusions)

INSTALLING THE NEW LIBRARIES

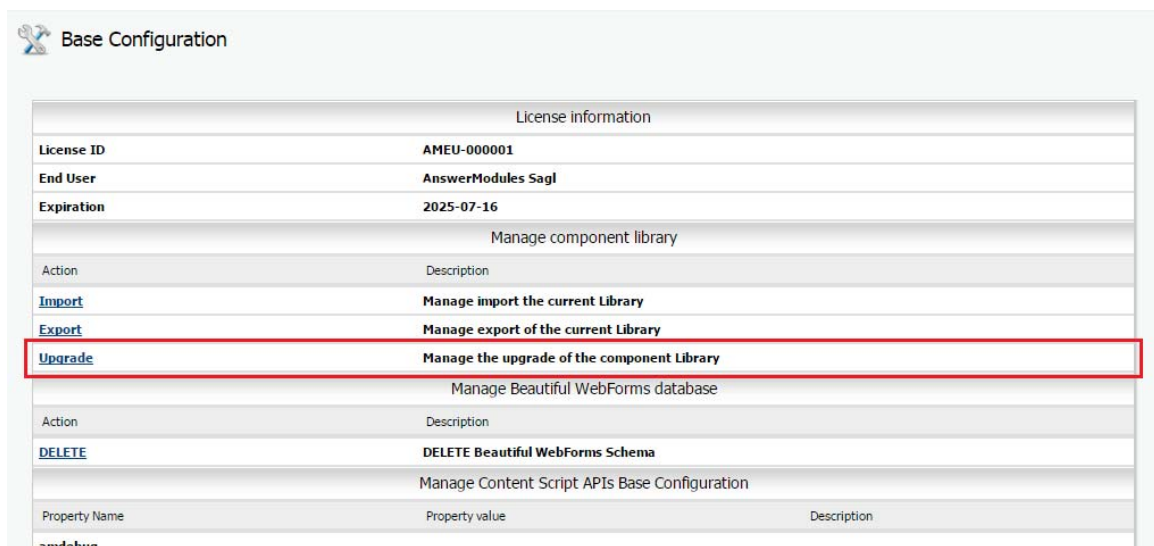
This procedure is only useful if there are preexisting Beautiful Webforms views on the target system. It can be safely ignored for vanilla installations.

After performing the standard module setup, the suggested procedure to upgrade the existing libraries related to Beautiful WebForms (*CSFormSnippets* and *CSFormTemplates*, located within the Content Script Volume) is described hereafter.

UPGRADE PROCEDURE FOR CSFORMSNIPPETS

The *CSFormSnippets* library can be upgraded using the standard library upgrade procedure.

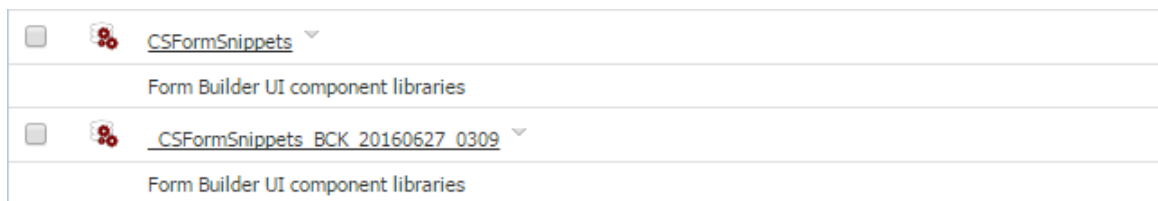
- 1) From the Module Suite Base Configuration, in the “*Manage component library*” section, choose the “*Upgrade*” option.



- 2) In the library selection window, select the *csformsnippets.lib* option and click “**upgrade**”.

Name	Last Modified	Warning
<input type="checkbox"/> csadditems.lib	27.06.2016	
<input type="checkbox"/> csbrowseview.lib	27.06.2016	
<input type="checkbox"/> csbrowseviewcolumns.lib	27.06.2016	
<input type="checkbox"/> csdatasources.lib	27.06.2016	
<input type="checkbox"/> csevents.lib	27.06.2016	
<input checked="" type="checkbox"/> csformsnippets.lib	27.06.2016	
<input type="checkbox"/> csformtemplates.lib	27.06.2016	
<input type="checkbox"/> csgui.lib	27.06.2016	
<input type="checkbox"/> cshtmltemplates.lib	27.06.2016	
<input type="checkbox"/> csevents.lib	27.06.2016	

- 3) Upon completion, in the root of the Content Script Volume there will be 2 distinct folders related to *CSFormSnippets*, as shown below. At this point the new library is available for Beautiful WebForms.



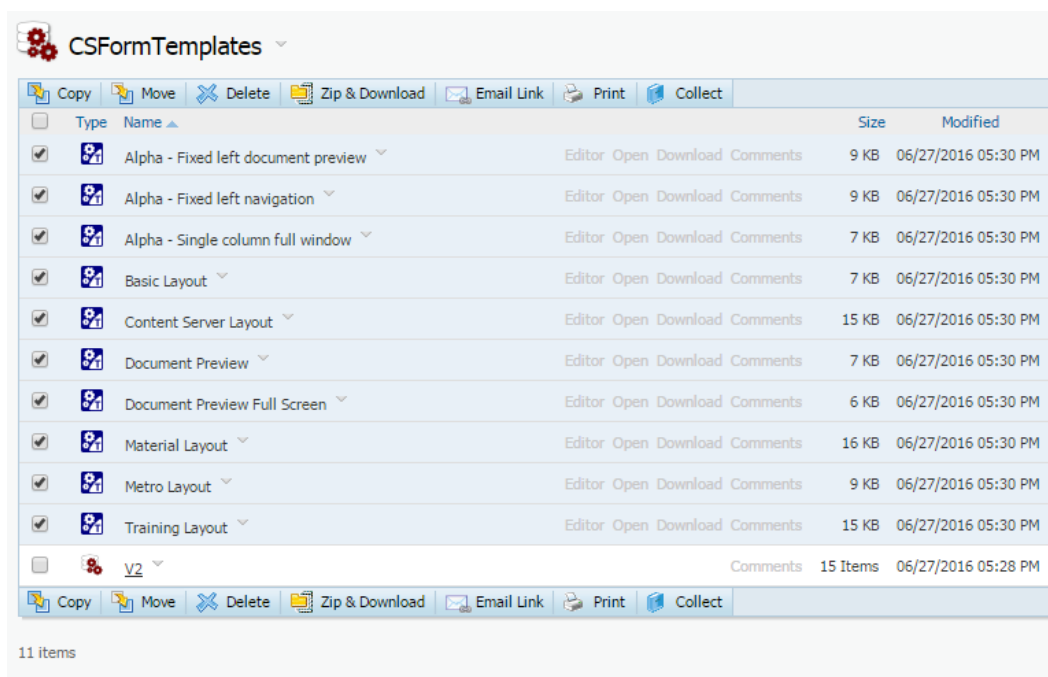
- 4) Cleanup. The folder named “*_CSFormSnippets_BCK_yyyyMMdd_HHmm*” is a backup folder containing the previously installed library. It can be safely exported and/or removed. In case any of the standard components was customized, patched or otherwise modified, or new custom components were added within the standard library, make sure that you transfer any relevant changes to the new libraries before deleting the old version.

UPGRADE PROCEDURE FOR CSFORMTEMPLATES

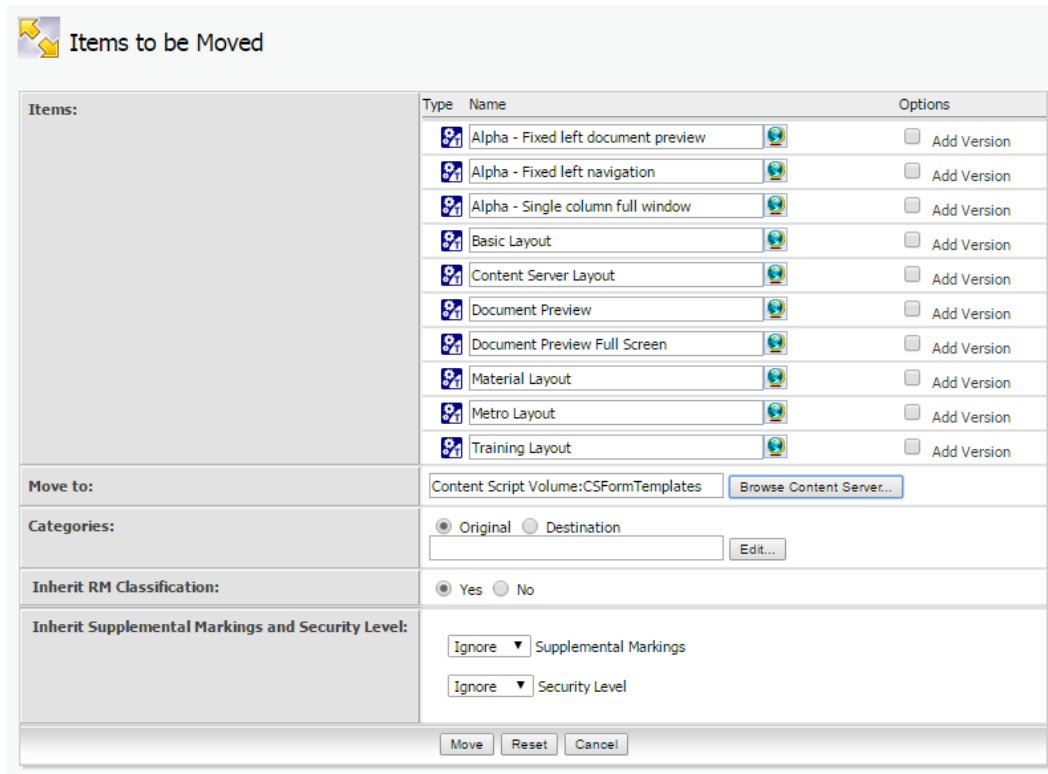
Upgrade procedure for *CSFormTemplates* is slightly different, due to the fact that templates are referenced by object dataID within existing forms. In order to preserve functionality of existing forms, it is recommended to perform the upgrade as follows.

- 1) From the Module Suite Base Configuration, in the “*Manage component library*” section, choose the “*Upgrade*” option.
- 2) In the library selection window, select the *csformtemplates.lib* option and click “*upgrade*”.
- 3) Upon completion, in the root of the Content Script Volume there will be 2 distinct folders related to *CSFormTemplates*:

- a. CSFormTemplates : the new template library
 - b. `_CSFormTemplates_BCK_yyyyMMdd_HHmm` : a backup folder containing the previously installed template library.
- 4) The root of the “CSFormTemplates” folder will contain the following:
- a. a set of templates, which correspond to library V1 (Module Suite 1.7.0). These should correspond 1 to 1 with the templates contained in your backup folder: `_CSFormTemplates_BCK_yyyyMMdd_HHmm`
 - b. a folder named V2, which contains new version 2 templates.
- 5) In the CSFormTemplates folder, delete all the templates (DO NOT DELETE the V2 folder) as shown in the next image.



- 6) Navigate to the `_CSFormTemplates_BCK_yyyyMMdd_HHmm` folder and MOVE all the old templates to the new CSFormTemplates folder (in this way, the dataIDs of the old templates will be preserved). The now empty `_CSFormTemplates_BCK_yyyyMMdd_HHmm` can be safely deleted.



CUSTOM FORM TEMPLATES AND FORM COMPONENTS

Beautiful WebForms allows users to create custom libraries of form components, as well as new form templates. It is recommended to organize such custom elements within the Content Script Volume in dedicated, separate containers, in order to avoid issues when upgrading the standard libraries.

Since version 1.7.0, the recommended structure was:

- Content Script Volume
 - CSFormSnippets
 - <Customer name or custom component family name>
 - <custom widget A>
 - <custom widget B>
 - <Customer name>
 - CSFormTemplates
 - <custom template A>
 - <custom template B>

With version 2.0.0, the recommended structure is extended to include the concept of library version.

- Content Script Volume
 - CSFormSnippets
 - V2
 - <Customer name or custom component family name>

- *<custom component A>*
- *<custom component B>*
- 📁 *<Customer name>*
 - 📁 CSFormTemplates
 - 📁 V2
 - *<custom template A>*
 - *<custom template B>*



Custom Beautiful WebForms components created prior to version 2.0.0 must be updated to be compatible with Beautiful WebForms Editor version 2.0.0. The procedure is straightforward and does not strictly require to perform any changes to the components' code.

In order to update the existing components, perform the following steps for each one of them:

- 1) open the component editor
- 2) save the component

Saving the component will trigger recompiling, which is enough to ensure compatibility in the new Module Suite version.

PREVIOUS RELEASES

MAJOR CHANGES IN VERSION 1.7.0

DOCUMENT MANAGEMENT (DOCMAN) API EXTENDED

Document Management APIs have been extended to cover various functionalities and object types that were only partially supported, such as: Audit, Compound Documents, Collections, References. Additionally, all newly added APIs from version 1.7.0 can be easily identified in the API documentation thanks to the “since version” badge.

SEARCH API REFACTORING

The Search service now features a Search Query builder helper that allows to programmatically define complex search queries.

BEAUTIFUL WEBFORMS VIEWS ARE NOW CONTAINER OBJECTS

Beautiful WebForms views are now Container class objects on Content Server. Content Scripts that are to be executed as part of the form request lifecycle (OnLoad, PreSubmit, OnSubmit) are now created as child nodes of the form view. The actual binding to the corresponding lifecycle phase is performed by name.

This enhancement produces various positive effects:

- Form request lifecycle Content Scripts are now standalone objects, and as such can be versioned.
- Form request lifecycle Content Scripts can now be edited using the standard full-fledged Content Script editor, with all its functionalities (code validation, snippet library, etc.)
- Form request lifecycle Content Scripts now support user-impersonating functionalities (business logic can be executed as a different user than the one loading the form)

The enhancement is totally backwards compatible. Old Beautiful WebForms views will continue working as usual. Additionally, an “upgrade” option is available through the object’s specific tab to instantly transform the view to the new format.

REST API CONTROLLER

By using the new AM REST Controller, Content Script objects can be optimized for usage as REST Service endpoints. The AM REST Controller takes care of the boiler plate code required for managing URL parameters and invoking the right function in the service. Additionally, the Content Script snippet library available in the Content Script Editor has been enriched with snippets to support the creation of REST service stubs.

NEW CONTENT SERVER GUI ENHANCEMENT (AM-GUI) API SERVICE AVAILABLE

All Graphic User Interface enhancement functionalities have been concentrated in a single new Content Script API service (**am-gui**). This service features various helper tools that simplify the customization of the presentation layer.

NEW RENDITION (REND) API SERVICE AVAILABLE

A brand new HTML to PDF rendition service is now available. The service can be used in combination with Beautiful WebForms to render forms in printable format with virtually no effort, but also supports any other HTML format document. PDF rendering does not require an external rendition server, but relies on a lightweight Open-Source library which must be installed on the server.

CONTENT SCRIPT CODE SNIPPET LIBRARY REVAMP

The whole Content Script snippet library, which provides code templates and useful examples inside the Content Script Editor, has been completely reviewed and extended. With more than 70 code snippets of various complexity, the library will be an extremely valuable tool for both beginners and skilled Content Scripters.

INTRODUCING DOCUMENT OVERLAY AND DOCUMENT OVERLAY BUILDER

Content Server Form data can now be easily transferred as text-overlay on any PDF document thanks to the new form service APIs. All that is needed is form, a PDF document, and an overlay configuration that maps data to specific positions on the document. The result is a pixel-perfect transposition of data on top of the PDF. To simplify the creation of overlay configurations, a visual point-and-click editor (Document Overlay Builder) is now shipped together with the Beautiful WebForms module.

INTRODUCING CONTENT SCRIPT ONLINE DEBUGGER

Content Script Online Debugger is a web-based tool targeted to developers and administrators that allows to follow step-by-step execution of Content Script code and inspect the current execution context, directly from within Content Server administration pages. Content Script Online Debugger also supports debugging of Content Script Workflow Steps.

ALL ENHANCEMENTS IN VERSION 1.7.0

ID	Scope	Description
#0000023	Beautiful Webforms	Added Content Script Editor validation to Beautiful WebForms views subscripts
#0000025	Content Script	Workflow service now features a method that allows to change the title of a running workflow
#0000103	Beautiful Webforms	Allow to specify an external Content Script as form view onLoad, onValidation, onSubmit script
#0000164	Beautiful Webforms	Adding Fields to form templates requires a system restart
#0000202	Content Script	Search Service API refactoring. New Search Query builder has been introduced, to create search queries programmatically with reduced effort for the most common scenarios. The builder will be further improved in the next releases
#0000205	Beautiful Webforms	Introduced overlay-text utility for Form Service, that allows to transfer Content Server Forms data as overlay text on PDF documents

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ID	Scope	Description
#0000206	Extension - AdLib	Changed default timeout settings for ADLIB job results. AdLib job default timeout is now set to -1 (no timeout)
#0000207	Extension - Docx	Updated docx4j dependency version from 3.1.0 to 3.2.0
#0000208	Extension - PDF	Updated pdfbox dependency version from 1.8.8 to 1.8.9
#0000209	Content Script	Extend code autocompletion feature to support pre-populating parameter values (autocompleting a method's parameters clause would set an actual value rather than a placeholder). The capability is currently used by a subset of services, but it will be extended and is also available in the Content Script SDK.
#0000211	Content Script	Added new docman APIs to fetch paginated lists of nodes
#0000212	Content Script	New docman APIs: Audit
#0000213	Content Script	New docman APIs: References
#0000214	Content Script	New docman APIs: Compound Documents
#0000215	Content Script	New docman APIs: Collections
#0000216	Content Script	New docman APIs: Versions
#0000217	Beautiful Webforms	Forms service now features a method to export a Form View (displayed inside the associate template) to an HTML file
#0000221	Beautiful Webforms	It's now possible to programmatically clear Form field validation constraints.
#0000222	Beautiful Webforms	Several improvements have been applied to FormBuilder SmartEditor in order to boost its performance when working on large views.
#0000224	Beautiful Webforms	Javascript Validation framework now supports the DateTimePicker Form snippet
#0000225	Beautiful Webforms	Improved compatibility of Javascript validation framework with standard Content Server UI
#0000226	Beautiful Webforms	Introduced new DateTimePicker Form Snippet. The DateTimePicker component is built to support Date fields with time support.
#0000227	Beautiful Webforms	Improved compatibility of CSS Form framework with standard Content Server UI
#0000232	Content Script	Improved overall performances changing the way nodes information are retrieved (which is now lazy by default)
#0000235	Content Script	Added several new APIs to docman service: <ul style="list-style-type: none"> - It is now possible to ask for a temporary CSResource object (wrapper for a temp file). - It is now possible to retrieve the Personal Workspace node for any user (if the user current user has necessary rights). - It is now possible to retrieve the list of nodes that need to receive a category update (given the category node). - It is now possible to know the number of nodes that need to receive a category update (given the category node).
#0000240	Content Script	It's now possible to cast a GCSCategory (metadata associated to a node) to the corresponding CSNode object
#0000243	Content Script	It's now possible to manipulate workflow's package before starting a new workflow instance

ID	Scope	Description
#0000244	Content Script	Workflow service now features a method that allows to change Workflow tasks titles.
#0000245	Content Script	Extended the usage of configuration flag <i>amcs.core.debugEnabled</i> . The flag is now a binary mask that can be used to control other features useful on non-productive environments (such as Content Script Volume caching)
#0000246	Content Script	<i>RequestHandlerProxy</i> now supports Directory Service module on OTCS version 10
#0000247	Content Script	Improved caching system for Content Scripts (compilation required much less often)
#0000248	Content Script	Minor improvements to the auto-completion feature of Content Script editors
#0000249	Content Script	Added a " <i>self</i> " reference in Content Script
#0000251	Module Suite	New component Itemreference for configuration panel. Various Beautiful WebForms snippets and Content Script snippets that expect an item ID as configuration parameter now feature a popup browsable item selector that can be used as an alternative to direct input.
#0000254	Module Suite	Content Script and Beautiful WebForms support libraries: updated FontAwesome to version 4.3.0
#0000259	Module Suite	String type objects in Content Script now feature a useful "encodeURL" utility.
#0000260	Beautiful Webforms	It's now possible to include Beautiful WebForms Sub-views, as well as HTML Templates as part of any Beautiful WebForms view. This allows for reuse of common form parts and the creation of more complex custom layouts.
#0000261	Content Script	Improved API documentation, more information is now available ("available since" information is now showed for new APIs, as well as deprecation and deprecation reason for APIs that will be removed in later releases.)
#0000262	Content Script	It's now possible to distribute emails to users and groups. A "distribute(..)" method for Users and Groups has been added to the CSEmail object. The framework will take care of fetching email addresses and send out multiple emails in case of Groups.
#0000263	Beautiful Webforms	It's now possible to update a Form object directly from another Form object
#0000264	Beautiful Webforms	Disabled FormTemplate cache in debug/development mode
#0000265	Module Suite	Introduced new <i>amgui</i> service, for standard OTCS UI enhancements
#0000266	Module Suite	Introduced Content Script online debugger
#0000267	Content Script	It's now possible to apply validation constraints to Excel cells (constraints are the same available from Excel application)
#0000268	Content Script	It's now possible to add Barcodes to PDF documents
#0000269	Content Script	It's now possible to read barcodes from PDF documents
#0000270	Content Script	Content Script default json method now takes also List and Maps as parameters
#0000271	Content Script	Introduced new rendition extension package, to convert HTML pages to PDFs
#0000272	Script Console	Extended RemoteWebForms extension package: <ul style="list-style-type: none"> - Incoming Remote Form Package can now be protected by a secret pin. - Outgoing Remote Form Package can now contain attachments

ID	Scope	Description
#0000273	Script Console	It's now possible to customize Script Console webserver behavior through an initialization script
#0000276	Content Script	It's now possible to register Content Script callbacks on NodeAddVersionPre event
#0000278	Beautiful Webforms	Grid Container ("Bravo Container") layout optimization for mobile devices. Internal border are hidden when switching to a single-column layout.
#0000279	Script Console Extension - Forms	Required fields validation are now skipped when using the SAVE action on Remote Beautiful WebForms.
#0000285	Content Script	The information tracked as part of Callbacks events have been optimized.
#0000286	Beautiful WebForms	Performance improvements related with the save action of the Beautiful WebForms builder
#0000287	Module Suite	Introduced license management feature
#0000288	Beautiful WebForms	New API: The CSForm exposes now the following information: storage Mechanism, submit Mechanism, number of submitted items.
#0000289	Content Script	CSNode can now be queried explicitly for categories and features
#0000290	Extension - Rendition	New API service: It's now possible to evaluate any templating expression to a PDF document
#0000291	Content Script	New API: It's now possible to remove a category from a node
#0000293	Beautiful WebForms	New API: The listFormData method of FormService now supports pagination
#0000295	Content Script	New API: Fast retrieve of a collection of CSNode with all the information needed by BrowseView Widget is now possible.
#0000296	Extension - AmGui	Added a browseview row provider that works on a CSReportResult object
#0000297	Beautiful WebForms	Closures can now be added safely to form viewParams

ISSUES RESOLVED IN VERSION 1.7.0

ID	Scope	Description
#0000015	Beautiful Webforms	Beautiful WebForms "Date" field does not take into account the "show time" Form Template flag.
#0000203	Beautiful Webforms	Exit button (am_exit action) returns an Error 500 when used in workflow form steps
#0000204	Beautiful Webforms	CSBeautifulWebFormView not listed among APIs
#0000210	Content Script	Email service uses platform default charset for email body

ID	Scope	Description
#0000218	Beautiful Webforms	Attachment folder property it's not properly populated, getting Form from FormService getWorkFlowForm method
#0000219	Beautiful Webforms	Form Fields do not have correct ids when Form object has been loaded from a template.
#0000223	Beautiful Webforms	AjaxValidation framework always triggers validation for custom actions
#0000228	Content Script	In particular situations of heavy Content Server load, deadlocks scenarios have been observed (during load tests).
#0000229	Content Script	Copying content among CSResources might lead to data corruption.
#0000230	Content Script	The parameter "reScheduleOnError" of the Admin Service service has a misleading name
#0000231	Content Script	The addTextMultiline method of the CSFormTemplate object does not take default values
#0000233	Beautiful Webforms	Attributes of type 'set' have no type defined when created programmatically
#0000234	Content Script	CSVersion mimetype, comment and update method are not visible as APIs
#0000236	Content Script	Fixed a potential security issue related with runSQL method of docman service
#0000237	Content Script	ItemReference attributes are not managed correctly
#0000238	Content Script	SubTypes for TemplateWorkspaces objects are not always correct
#0000239	Content Script	CSProject is never returned by asCSNode method
#0000241	Content Script	Improved support for TemplateWorkspaces Roles
#0000242	Content Script	Introduced new search query builder
#0000250	Content Script	Javascript Server side compiler fails to evaluate "compare" helper
#0000252	Content Script	Regression - SearchService not working for non admin users
#0000253	Content Script	Fatal error related to unwanted script return of File of type Directory
#0000255	Beautiful Webforms	Action are not reset after Ajax submission for action management
#0000256	Beautiful Webforms	Concurrency problem in updating form values
#0000257	Beautiful Webforms	Form Set attributes are not properly initialized by the getFormInfo method of the FormService
#0000258	Beautiful Webforms	User fields in Form Set attributes are not properly persisted if the form object has been loaded with FormService
#0000274	Content Script	Content Script workflow task does not submit its work in case of error
#0000275	Content Script	It's not possible to return JSON data from administrative Content Scripts
#0000277	Beautiful Webforms	Unbalanced HTML tags in Panel Container form snippets when no header title is specified
#0000280	Beautiful Webforms	"Select from ViewParams and New Values" widget not showing new values in Read-Only mode
#0000281	Extension - Docx	Empty Spreadsheets created with XLSX service are not fully compliant
#0000282	Extension - Docx	Date-type Core properties of Office Documents (created, last modified) cannot be set

ID	Scope	Description
#0000283	Beautiful Webforms	Validation errors on radio-buttons components are not visible to the users
#0000284	Beautiful WebForms	Minor issues with am_gridTable.css
#0000292	Extension - PDF	Images overlaid on PDF documents are sometime stretched
#0000294	Content Script	Webreports that require a request context cannot be run and embedded in Content Script's output

ALL ENHANCEMENTS IN VERSION 1.6.1

ID	Scope	Description
#0000100	Beautiful WebForms	New Component - added a droppable "debug info" component to ease development and debugging
#0000196	Content Script	The view name is now displayed in the browser page title
#0000108	Extension - Docx	Enabled setting of "date" properties on Docx documents
#0000107	Extension - Docx	Template parsing and variable replacement functionality has been extended to document header and footer.
#0000131	Content Script	Logging level can now be specified separately for each script
#0000152	Content Script	Multiple Content Script callbacks can now be registered for the same node
#0000191	Content Script	Added API to clone permissions among nodes
#0000195	Content Script	Script name is now displayed in the browser page title

ISSUES RESOLVED IN VERSION 1.6.1

ID	Scope	Description
#0000197	Content Script	Unable to access values of workflow form's attributes
#0000194	Content Script	Unable to determine the type for categories' attributes
#0000193	Content Script	Context variables for CSDataSources are stored in uppercase with Oracle database

MAJOR CHANGES IN VERSION 1.6.0

CONTENT SCRIPT UI ENHANCING PACKAGE

Content Script generated pages can now be built mixing standard Content Server UI components.

The docman extension package features a new "getBrowseView" object that allows developers to inject in the Content Script generated page the standard Content Server "Browse View" for a specific container (either standard or virtual). Browse views built with Content Script can be filtered and manipulated using an optional Content Script (for example it is possible to hide standard columns or filter out content rows).

BEAUTIFUL WEBFORMS

The Beautiful WebForms component library has been completely renewed. Several new components have been added and most of the existing ones have received substantial improvements. Form Templates have been re-organized and most of them now support a 24-column CSS grid (in addition to the previous 12-column grid layout).

ALL ENHANCEMENTS IN VERSION 1.6.0

ID	Scope	Description
#0000165	Content Script	Sub-Content Scripts can now return values to the caller
#0000166	Content Script	It is now possible to extract pages and add watermarks to plain PDF files (and not just Content Server documents)
#0000167	Content Script	Information regarding the path used to execute the Content Script is now available in the Content Script params (params.path)
#0000168	Beautiful WebForms	A file can now be returned by the OnLoadView Content Script
#0000169	Content Script	Added APIs for read/write access to Workflow attributes
#0000170	Beautiful WebForms	A file can now be returned by the Pre Submit Content Script
#0000172	Content Script	Added API to check recursively if user is member of a group
#0000174	Content Script	Added API to access category attribute values that return the actual field type
#0000175	Beautiful WebForms	Added a default "Submit Button" to newly created Beautiful WebForms Views
#0000176	Content Script	Log level is now configurable for Content Script objects
#0000178	Beautiful WebForms	FormTemplates (and FormBuilder) can now work either with a 12 columns grid and a 24 columns grid
#0000179	Content Script	Added inheritance for CSEvents callbacks
#0000180	Content Script	The Content Script installer now tries to automatically extract the required libraries from the Content Server installation
#0000177	Beautiful WebForms	Added decimal notation formatting for form field values of type "real"
#0000183	Beautiful WebForms	In case of uninstallation It is now possible to remove the Beautiful WebForms database schema directly from admin pages

ISSUES RESOLVED IN VERSION 1.6.0

ID	Scope	Description
#0000171	Beautiful WebForms	Datepickers do not work after an Ajax update of the form view
#0000173	Beautiful WebForms	Default validation constraints are not inherited by new entries of fields with multiplicity higher than one
#0000181	Content Script	"Manage Callbacks" page Administration page does not list all callbacks
#0000182	Beautiful WebForms	Form fields of type "real" that are not assigned a value block the form submission

MAJOR CHANGES IN VERSION 1.5.1

BEAUTIFUL REMOTABLE WEBFORMS

Beautiful WebForms forms can now be exported and delivered through the Script Console to any user with no access to Content Server, or be integrated in any web solution.

SYNCHRONOUS CONTENT SCRIPT CALLBACKS

Content Script version 1.5.1 features a powerful hook, based on NodeCallbacks, capable of triggering Content Script execution in response to events on Content Server (for example, the creation of a new document in a specific folder) the callback will be executed together with the event.

ADLIB EXTENSION PACK

Create document renditions on demand thanks to the integration with AdLib PDF Express engine.

CLASSIFICATION EXTENSION PACK

Manage Classification and Classification Trees in a scripting fashion, re-classify hundred of thousands of documents with a single line of code and just one click.

CONTENT SCRIPT EXTENSION FOR WORKFLOWS

Content Script extension for Workflows allows you to add Content Script Steps to new or existing Content Server WorkFlow Maps. Content Script Steps are automatic steps that will execute an associated Content Script when triggered.

ALL ENHANCEMENTS IN VERSION 1.5.1

ID	Scope	Description
#0000162	Content Script	Content Script now supports Generation
#0000161	Content Script	Content Script backed Callbacks can now be executed synchronously
#0000160	Content Script	Content Script is now fully compatible with CSIDE

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ID	Scope	Description
#0000154	Script Console	Add session keepalive job to be scheduled
#0000155	Script Console	Added Script Console online help
#0000138	Beautiful WebForms, Content Script	Added new Tools to Velocity Context
#0000141	Content Script	Base Rights (OWNER, OWNER_GROUP, PUBLIC_ACCESS) cannot be set on nodes
#0000144	Beautiful WebForms	Forms snippet "Error" should be extended to include client-side validation errors
#0000143	Beautiful WebForms	Trigger event when javascript validation is fired

ISSUES RESOLVED IN VERSION 1.5.1

ID	Scope	Description
#0000133	Beautiful WebForms	The Max Validator (server side) performs Min validation
#0000134	Content Script	Several issues with CSWorkflowTask API and CSWorkFlow API
#0000139	Content Script	Unable to set an empty value for attributes with multiplicity higher than one
#0000142	Content Script	Several calls to the same OScript function that implement ContentScript API may result in execution failure
#0000145	Content Script	Scripts executed as workflow's step do not have "params" variables in context
#0000146	Beautiful WebForms	Form fields with multiplicity higher than one are not correctly valued by "forms" service
#0000147	Beautiful WebForms	Changes applied to the model of a Form Snippet are not visible on existing form views
#0000148	Beautiful WebForms	Server side validation breaks client side validation
#0000148	Beautiful WebForms	AnswerModules' Init and Validations script do not work in standard OTCS interface
#0000150	Beautiful WebForms	Submit Button with Params doesn't work
#0000151	Extension - Docx	addWorksheet(..) api causes a corrupt xlsx document
#0000140	Content Script	RevokePermissions API does not work with OWNER, OWNER_GROUP, PUBLIC_ACCESS
#0000153	Beautiful WebForms	Assign to a form field a name built in a way similar to the standard form field identifiers might prevent the correct submission
#0000158	Script Console	Jive Ext-Pack for Script Console installer does not configure properly the internal scscript repository

ID	Scope	Description
#0000156	Script Console	Scheduled jobs are always launched at startup, even if not demanded by scheduling configuration
#0000159	Content Script	Cache Service unable to delete entries

MAJOR CHANGES IN VERSION 1.5.0

CATEGORY MANAGEMENT

Adding, removing, updating category metadata can now be done in an extremely simplified and user-friendly fashion. Every CSNode object grants direct access to its metadata, without having to rely on explicit API methods.

Examples:

- navigate through simple fields and set by name

```
doc."Account Category"."Company Name"
```

```
doc."Account Category"."Contacts"."First Name"
```

- reference single values in a multi-valued field by specifying their position

```
doc."Account Category"."Contacts".Email[1]
```

- add values to a list

```
doc."Account Category"."Contacts".Email << "info@answermodules.com"
```

- set multiple complex values from a data structure at once

```
doc."Account Category"."Addresses" << [...]
```

SCHEDULING

It is now possible to create scheduled tasks with Content Script objects, and administer these tasks from a centralized administration panel.

CUSTOM DATASOURCES FOR CONTENT SERVER COLUMNS

Standard Content Server columns come with a very limited choice in what to display in the user interface (basically, a field from a Category). The ability of using Content Scripts as column datasources overcomes these limitations, actually enabling to fetch data from external systems, manipulate it, easily update it on-demand or in response to events.

CONTENT SCRIPT CALLBACKS

Content Script version 1.5.0 features a powerful hook, based on NodeCallbacks, capable of triggering Content Script execution in response to events on Content Server (for example, the creation of a new document in a

specific folder). The Callback scripts can be extremely handy to perform automated tasks: for example, synchronizing Category metadata when new documents are added or modified.

CONTENT SCRIPT EXTENSION: DOCX MANIPULATION SERVICE

The new Docx service allows to do a bunch of interesting operations with Docx (Word) documents. Thanks to the templating expression resolver, we are able to use Word Document templates to create new documents by replacing dynamic data from metadata or other sources. We can automatically synchronize Category metadata from and to Word document properties.

IMPORTANT REMARKS WHEN UPDATING FROM EARLIER VERSIONS

RELOCATION OF EXTENSION PACKAGES BUILT ON PREVIOUS RELEASES OF CONTENT SCRIPT

Due to a major change in the management of the Java libraries in the Content Script module version 1.5.0, Content Script extension packages (including custom packages built with Content Script SDK) must now be deployed in:

```
%OTCS_HOME% \module\anscontentscript_1_5_0\amlib
```

rather than in:

```
%OTCS_HOME% \module\anscontentscript_1_5_0\ojlib
```

where they previously belonged.

Moreover, any dependency required by the extension (which is not already available in amlib) has to be deployed in a dedicated folder whose name matches the service id.

Example:

Custom service named “myservice”

Main library should be deployed as follows:

```
%OTCS_HOME% \module\anscontentscript_1_5_0\amlib\myservice.jar
```

Additional libraries should be deployed as follows:

```
%OTCS_HOME% \module\anscontentscript_1_5_0\amlib\myservice\adependency.jar
```

```
%OTCS_HOME% \module\anscontentscript_1_5_0\amlib\myservice\anotherone.jar
```

USAGE OF VARIABLE “REQUEST” IN CONTENT SCRIPTS

The global variable “request”, available in Content Scripts, is now deprecated, and should no longer be used. The variable “params” must be used instead.

The “request” variable will be no longer supported and completely removed in version 1.5.1.

MAILING SERVICE CONFIGURATION

Due to a change in the functionalities of the **mail** service API, it is necessary to reconfigure the service from the Basic Configuration panel in the AnswerModules administration section.

ALL ENHANCEMENTS IN VERSION 1.5.0

ID	Scope	Description
#0000109	Beautiful Webforms	WYSIWYG html editor: it is now possible to select "markup" style vs "css" style
#0000121	Beautiful Webforms	It's now possible to update values of Workflows' forms
#0000119	Content Script	Content Script Callbacks are skipped on specifically configured user
#0000120	Module Suite	Template editors' layout has been updated to match with Content Script and Beautiful WebForms editors
#0000094	Beautiful Webforms	Form Builder - Added a control to copy/duplicate form components
#0000117	Module Suite	Improved the compatibility of Content Script with both Content Server Builder and CSIDE
#0000116	Module Suite	Content Script Extension Package is now executed in a runtime sandbox.
#0000115	Module Suite	Each Content Script Extension Package can now be dynamically enabled or disabled through a configuration panel
#0000114	Content Script	Content Scripts can now be executed using the same authentication mechanism of the standard REST services
#0000113	Content Script	It's now possible to execute arbitrary Request Handlers from within a Content Script
#0000112	Module Suite	It's now possible to add constants to the Execution Context
#0000032	Content Script	Enabled the possibility to execute Content Script as a different user
#0000111	Content Script	Admin service features new methods that allow to schedule and unschedule content scripts
#0000110	Module Suite	Content Scripts can now be scheduled with cron Expression from Object's specific tab
#0000093	Beautiful Webforms	Added shortcuts on form object to create EDIT/DELETE urls for the submitted form data
#0000096	Extension - FTP	Missing API method: uploadFile(..) with default FTP profile
#0000097	Extension - FTP	Missing API method: createFolder(..)
#0000082	Content Script	It is now possible to create CategoryFolder objects through the docman service

ISSUES RESOLVED IN VERSION 1.5.0

ID	Scope	Description
#0000122	Content Script	Custom profile properties in Base Configuration not load loaded in multi-profile services
#0000118	Extension - Docx	Fixed an issue where setting custom properties on a Docx document did not work as expected if the document already contains a custom properties block
#0000105	Extension - Docx	Failing API calls to "saveWordDoc(doc)" on CSWordDoc object
#0000106	Extension - Docx	Docx template variable replacement fails with multiple adjacent placeholders
#0000102	Content Script	Base Configuration - Remove soft limit to custom user-defined variables

ALL ENHANCEMENTS IN VERSION 1.4.2

ID	Scope	Description
#0000089	Content Script	New API method: setMilestone(..) on CSTask object
#0000091	Content Script	New API method: setNickname(..) on a CSNode object
#0000090	Content Script	New API method: setComment(..) on a CSNode object
#0000083	Content Script	New API method: revokeRights(..) on Docman service allows to completely remove ACL rights

ISSUES RESOLVED IN VERSION 1.4.2

ID	Scope	Description
#0000088	Content Script	Fixed an issue that resulted in an error when attempting to configure user privileges on newly created users
#0000087	Content Script	Fixed an issue that could cause the WebReports Content Script extension to fail to register Content Script as WR Datasource
#0000086	Extension - SAP	Fixed an issue that caused xECM 10.5 to fail initializing if Content Script SAP extension is installed. <i>NOTE: SAP extension for Content Script now features an option (available in the service's Base Configuration) which allows to disable the registration of a custom Destination Data Provider for the extension. In order for the service to work correctly when the custom destination data provider is disabled, the service expects a third party extension to have registered an alternative destination data provider. The service APIs must be</i>

invoked by specifying the name of the destination as configured in the third party extension.

#000085	Content Script	Fixed an issue that resulted in API Search handles to fail retrieving all result pages for searches with multiple page results
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MAJOR CHANGES IN VERSION 1.4.1

ADMINISTRATION

Component Library "Update" functionalities have been added to the Module Suite (in addition to import/export)

ISSUES RESOLVED IN VERSION 1.4.1

ID	Scope	Description
#0000122	Beautiful WebForms	Fixed an issues that caused copied views to be only editable in "Advance Mode"
#0000118	Beautiful WebForms	Fixed an issue that caused an error when trying to download an HTML template object
#0000105	Beautiful WebForms	Fixed an issue that caused an error when trying to create an HTML template object from an existing html file
#0000106	Beautiful WebForms	Fixed an issue that caused an error saving view when editing in "Advance Mode"
#0000102	Beautiful WebForms	Fixed an issue that caused "User by Login" component to block form page load
#0000101	Beautiful WebForms	Fixed an issue that caused empty page views in forms with a "Select Date" component.
#0000100	Beautiful WebForms	Form validation - fixed an issue that caused "Popup" fields (dropdown menus) to always give validation errors for template fields without an assigned input in the form view
#0000099	Beautiful WebForms	Fixed an issue with "Select Date" components, which caused systematically a submit validation error when bound to a "Date:Popup" field
#0000098	Beautiful WebForms	Fixed rendering in Internet Explorer 9 browser due to wrong compatibility mode
#0000097	Content Script	Fixed an issue that caused error popup messages in Content Script Editor to be only partially visible to the user
#0000096	Beautiful WebForms	Fixed an issue that caused the "custom style" property to be not correctly rendered on the "Text Area" component
#0000095	Beautiful WebForms	Fixed an issue with unencoded content in various form components
#0000094	Beautiful WebForms	Fixed an issue with Forms.listFormData(..) API resulting in a an error if form template contained a "Date:popup" field
#0000093	Beautiful WebForms	Fixed multiple issues with error message rendering and field highlighting after validation errors.

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MAJOR CHANGES IN VERSION 1.4.0

ADMINISTRATION

Component Library Import/Export functionalities have been added to the Module Suite Administration Panel. The “Import” function scans for updated component libraries in the “library” folder of the Content Script Module, and prompts for update. Upon update, the systems renames old libraries in the Content Script Volume, creates a backup in the “library/backup” folder of the Content Script Module, and imports the new components.

[NOTE] Obsolete components are intentionally not automatically deleted from the Content Server Volume. They should be manually deleted once the procedure is complete.

Administrators can now run preauthorized Content Scripts for administration purposes. All valid Content Script files stored on the file system under the “csscripts” folder of the Content Script Module can be executed by invoking the appropriate URL endpoint.

*[EXAMPLE] Invoke script “scriptname.cs” stored in the “csscripts” folder:
http://.../otcs/cs.exe?func=amcs.executeadmcs&script= scriptname.cs*

ENHANCEMENTS IN VERSION 1.4.0

ID	Scope	Description
#0000054	Beautiful WebForms	Form Builder now supports content versioning. When restoring an older version of a Beautiful WebForms View object, the Smart Editor will be reinitialized to match the version’s content. <i>[NOTE] Form Builder restore is only available for views saved after the installation of this version of the software (1.4.0). Moreover, Form Builder restore is unavailable for versions saved in “Advanced Editing Mode” (i.e. direct source code editing).</i>
#0000052	Beautiful WebForms	Form Builder main functionalities (“save”, “clean view”, and the currently selected components controls) have been relocated in an always-visible, fixed bar at the bottom of the editing screen for eased access.
#0000051	Beautiful WebForms	Form Builder features new controls for the currently selected component in the editing area, allowing for quick access to resizing options
#0000046	Beautiful WebForms	Form Builder “Clean View” control now prompts for user confirmation in a popup panel

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ID	Scope	Description
#0000045	Beautiful WebForms	The appearance of the configuration panel for selected components in the Form Builder can now be reorganized and documented by editing the component's model in the Administration Panel. "Text" and "Input" component libraries have been reorganized accordingly, allowing for easier usage.
#0000043	Beautiful WebForms	Added "WYSIWYG" Html editor component in "Text" library
#0000040	Beautiful WebForms	Added a new "SANDBOX" library for experimental components <i>[NOTE] Components in the Sandbox are to be considered a preview of future functionalities, and are not to be considered totally stable. Moreover, it is NOT guaranteed that the components will ever be included in subsequent official releases.</i>
#0000042	Beautiful WebForms	The "forms" service now features significant new functionalities, that allow for programmatic creation of Form Template objects and Form Objects
#0000044	Content Script	Script Editor main functionalities ("save", "execute", "execute in modal panel") have been relocated in a fixed bar at the bottom of the editing screen for eased access.
#0000039	Content Script	The Script Editor editing window has been expanded for easier editing.
#0000038	Content Script	The appearance of the configuration panel for selected components in the Form Builder can now be reorganized and documented by editing the component's model in the Administration Panel.
#0000037	Content Script	A new "dbx" extension service is now available for DropBox integration. The service can be configured through the Administration Panel.
#0000036	Content Script	Autocompletion is now available for the properties and methods of object fields.

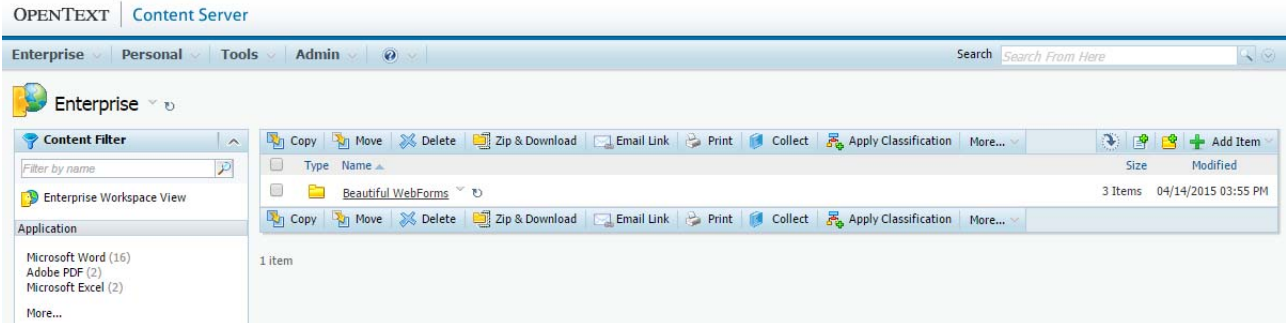
ISSUES RESOLVED IN VERSION 1.4.0

ID	Scope	Description
#0000085	Content Script	Fixed issue with automatic code completion when working at the beginning of a line: eg. doc + [ctrl + space] = docdocman
#0000084	Content Script	Fixed issue with the configuration of WebReports parameters

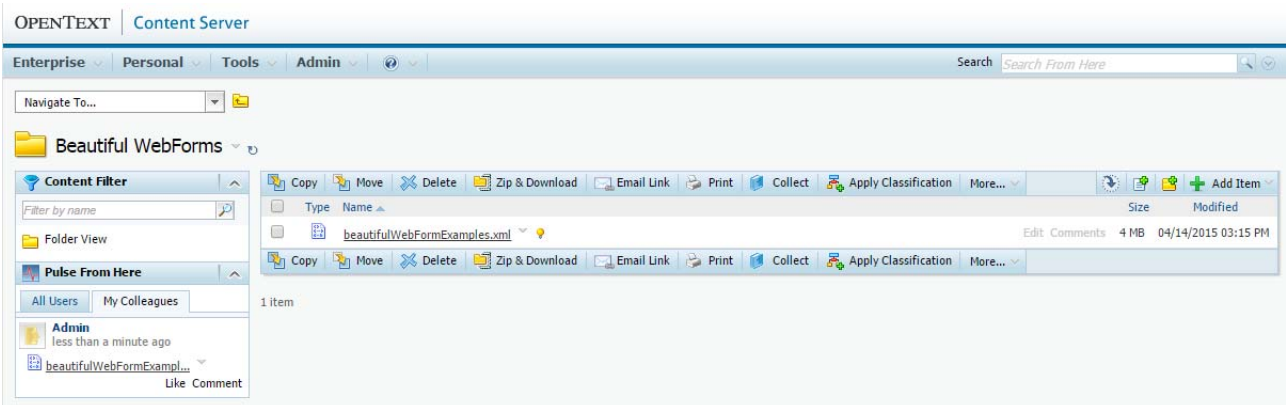
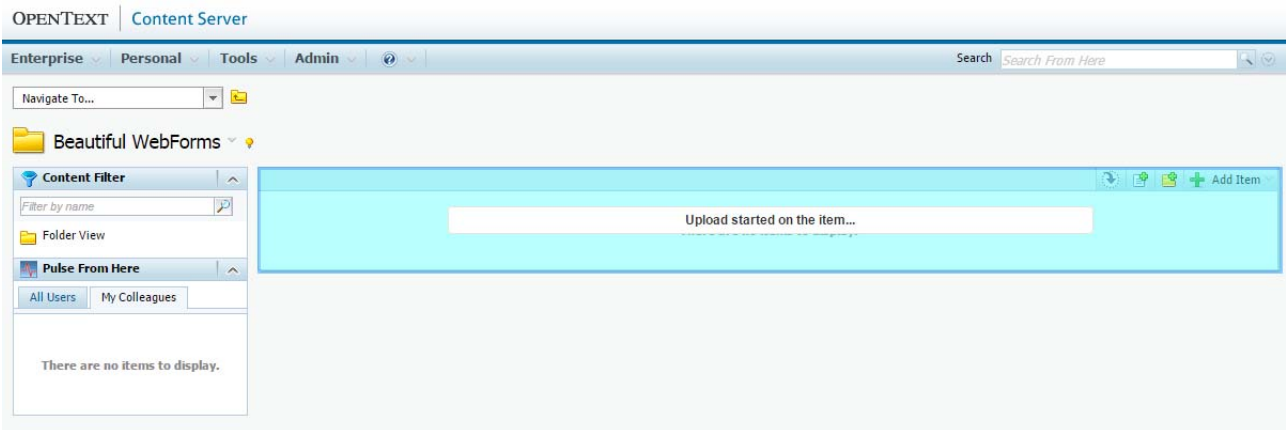
ID	Scope	Description
#000083	Beautiful WebForms	Form Builder: "Validation" commands in configuration panel disappear when selecting "-" on the last line.
#000082	Beautiful WebForms	User by Login and User by Group components attempt to load Pulse thumbnails from an invalid URL
#000081	Beautiful WebForms	Fixed issue with the "+" and "-" buttons of the User By Login and User By Group components, when configured to allow multiple values. "+" button causes the field to disappear. The "-" button restores the field but with empty values.
#000080	Beautiful WebForms	Popover not displaying correctly on User by Login and User by Group components
#000078	Beautiful WebForms	Progress Bar component not displaying correctly (appears to be always empty)
#000077	Beautiful WebForms	Prepended Text component usage with a multiple values field causes a system error
#000075	Content Script	"admin" service not recognized by code editor (no highlighting)
#000074	Beautiful WebForms	Fixed various issues with input validation rules library
#000072	Beautiful WebForms	New fields in Form Template are only visible when dropping new components in a view edited with the Form Builder. Previously added components keep reference to the original fields.

APPENDIX A: INSTALLING BEAUTIFUL WEBFORMS EXAMPLE PACK

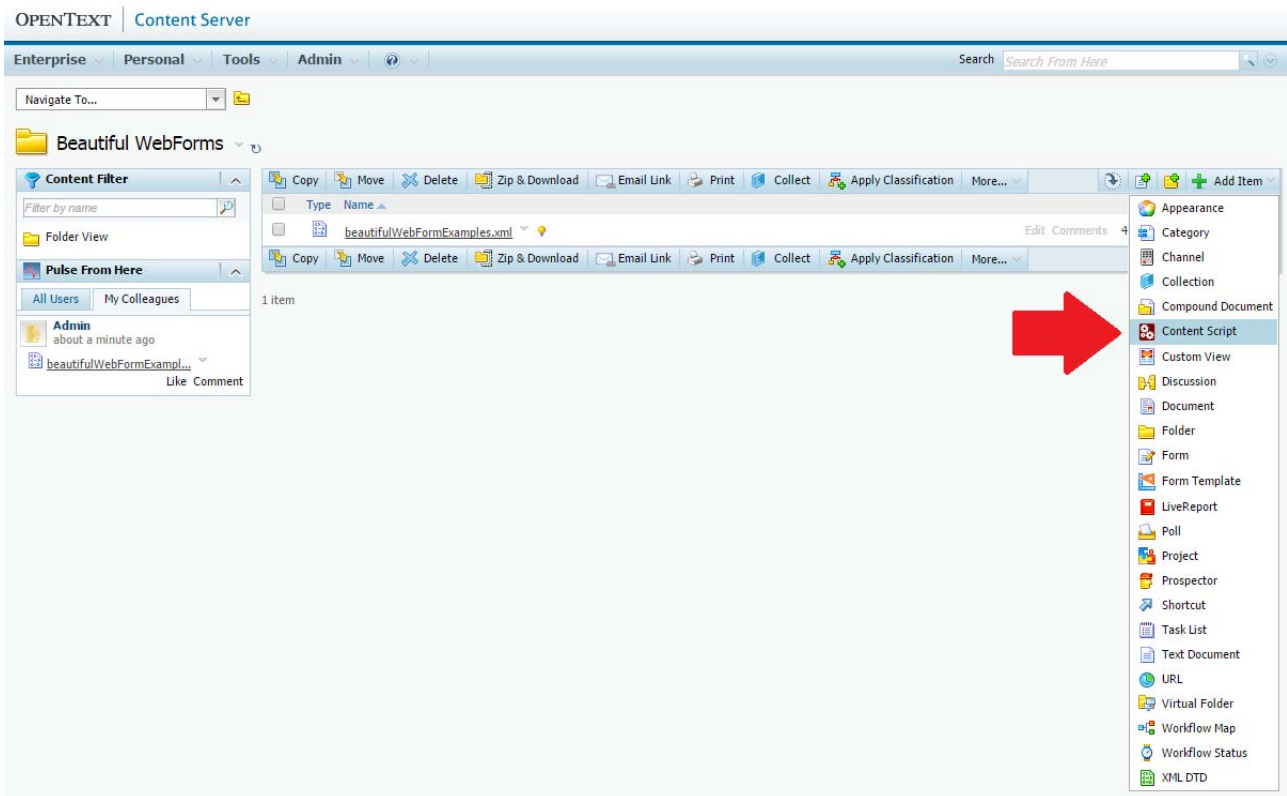
- 1) Create a target folder (“Beautiful WebForms”) in your preferred location on Content Server.



- 2) Upload the “beautifulWebFormExamples.xml” file to the newly created folder.

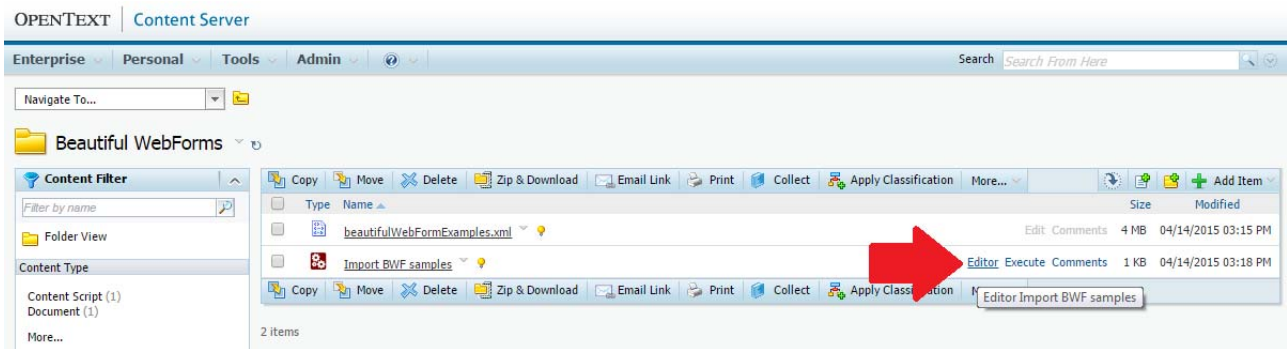


3) Create a new Content Script Object



Editor	Choose File No file chosen
Name:	Import BWF samples
Description:	<div style="border: 1px solid gray; height: 40px;"></div>
Version Control:	<input checked="" type="radio"/> Standard - linear versioning <input type="radio"/> Advanced - major/minor versioning
Categories:	<input type="text"/> <input type="button" value="Edit..."/>
Create In:	Beautiful WebForms <input type="button" value="Browse Content Server..."/>
<input type="button" value="Add"/> <input type="button" value="Reset"/>	

4) Open the Content Script Editor for the newly created script.



5) Add the following code to the script [1]

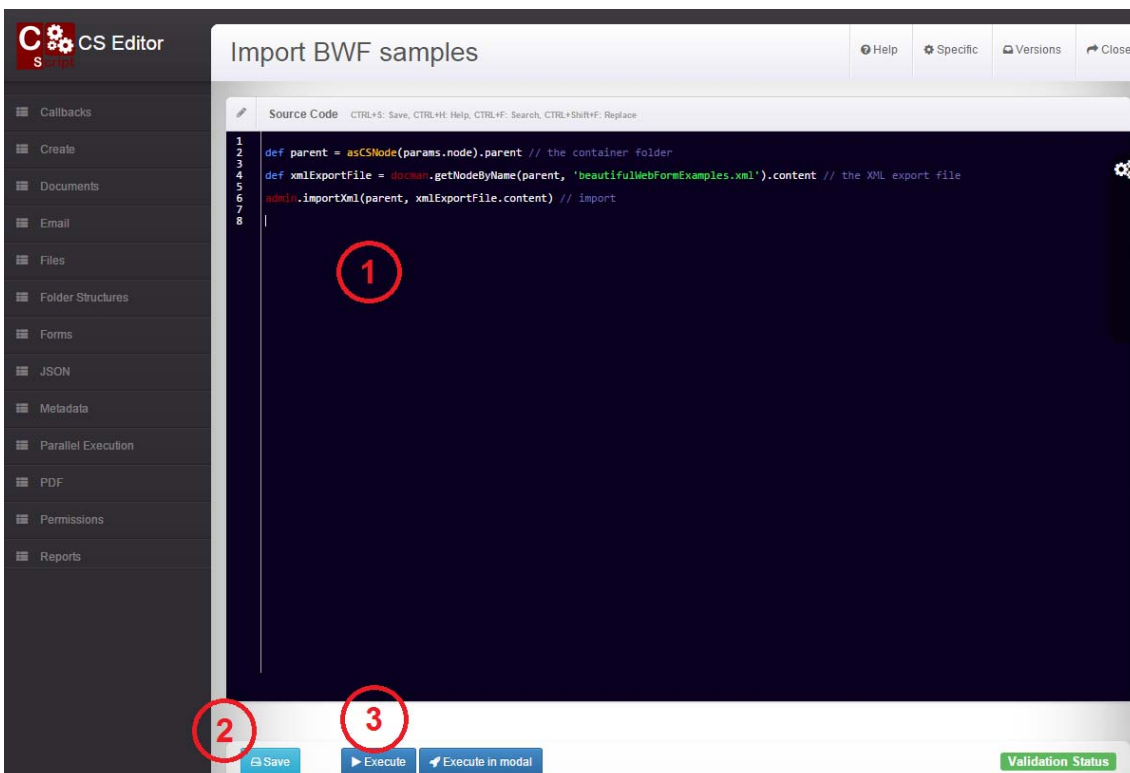
```
def parent = asCSNode(params.node).parent // the container folder

def xmlExportFile = docman.getNodeByName(parent,
'beautifulWebFormExamples.xml').content // the XML export file

admin.importXml(parent, xmlExportFile.content) // import
```

6) Save the script [2]

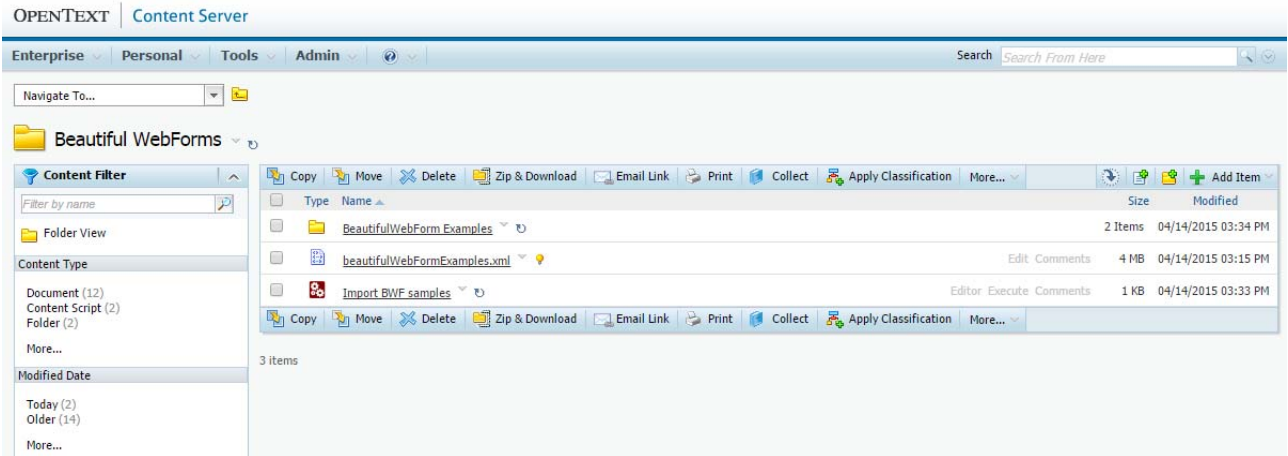
7) Execute the script [3]. The script will extract the required objects in your target folder.



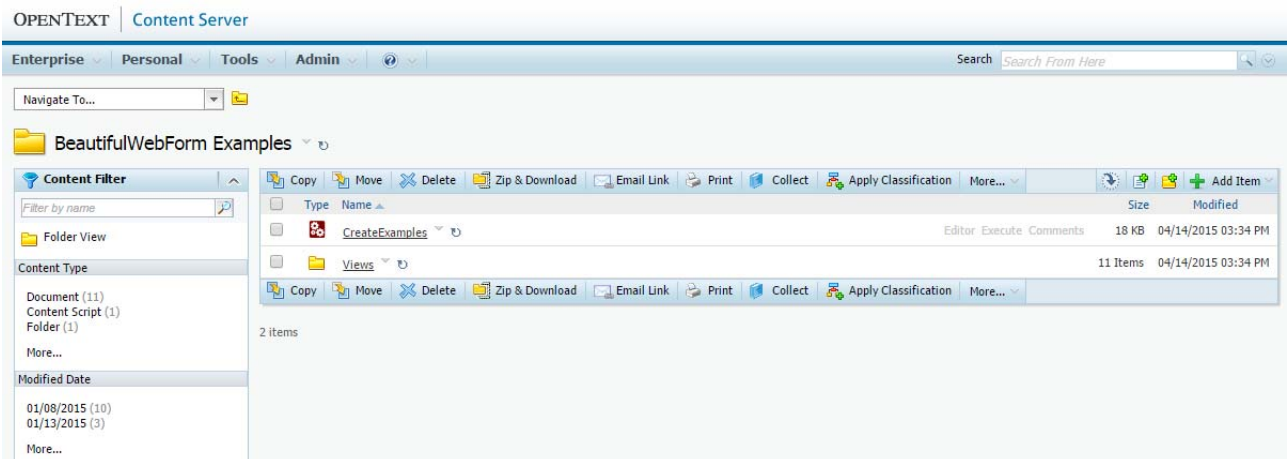
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8) Open the newly created **“BeautifulWebForm Examples”** folder in your target folder.



9) Execute the **“CreateExamples”** script.



10) You are done. The script will create a set of folders in the current location, each representing an example of increasing complexity.

