hyper
☐ Content & Digital Asset Management Server
☐ CMS

Version 7.0 Programers Guide

# Index

1	Introd	luction	1
2	hyper	CMS XML-Content-Repository	1
	2.1 h	yperCMS specific information	3
		Meta-Information	
		ext	
		Media	
		inks	
		Components	
_		rrticles	
3		ion libraries	
		ncluding a library	
	3.2 L	oading the configuration	7
	3.2.1	Content Management Server	7
	3.2.2	Publication Server	8
	3.3 G	Global variables	
		emplate variables	
		Object operation library	
	3.5.1	createfolder	
	3.5.1	deletefolder	
	3.5.3	renamefolder	
	3.5.4	createobject	
	3.5.5	deleteobject	
	3.5.6	renameobject	16
	3.5.7	cutobject	17
	3.5.8	copyobject	18
	3.5.9	copyconnectedobject	19
	3.5.10		
	3.5.11	· · · · · · · · · · · · · · · · · · ·	
	3.5.12	· · · · · · · · · · · · · · · · · · ·	
	3.5.13	<b>,</b>	
	3.5.14	1 3	
	3.5.15	5 J	
	3.5.16	<b>3</b>	
	3.5.17	5 <b>5</b>	
	3.5.18	B loadcontainer	27
	3.5.19	9 savecontainer	28
	3.6 F	ile Pointer library	29
	3.6.1	getfilename	29
	3.6.2	setfilename	
	3.7 F	ile operation library	
	3.7.1	loadfile	
	3.7.1	savefile	
	3.7.2	loadlockfile	
	3.7.3		
		savelockfile	
	3.7.5	lockfile	
	3.7.6	unlockfile	
	3.7.7	deletefile	
	3.7.8	appendfile	34
	3.8 E	dit content library	35
	3.8.1	setxmlparameter	35
	3.8.2	getcontent	
	3.8.3	getxmlcontent	
	3.8.4	selectcontent	
	3.8.5	selectxmlcontent	
	3.8.6	deletecontent	
	J.O.U	UCICLOUTILETIL	ナリ

	3.8.7	setcontent	41
	3.8.8	updatecontent	42
	3.8.9	insertcontent	43
	3.8.10	addcontent	44
	3.9 Me	ta Data Generator library	45
	3.9.1	getkeywords	45
	3.9.2	getdescription	45
	3.9.3	injectmetadata	46
	3.10 No	tifications library	47
	3.10.1	licensenotification	47
4	Compor	nents and applications	48
5	Databas	se Connectivity	49
	5.1 Cre	eating a Database Connectivity	49
6		ystem	
7	hyperCN	MS API Function Reference	52
		in API Functions	
	7.1.1	correctnumber	52
	7.1.2	cleancontent	52
	7.1.3	remove_utf8_bom	52
	7.1.4	convertchars	53
	7.1.5	specialchr	53
	7.1.6	specialchr_encode	
	7.1.7	specialchr_decode	
	7.1.8	object_exists	
	7.1.9	is_utf8	
	7.1.10	is_latin1	
	7.1.11	makestring	
	7.1.12	splitstring	
	7.1.13	is_emptyfolder	
	7.1.14	is_supported	
	7.1.15	is_cloudstorage	
	7.1.16	is_cloudobject	
	7.1.17	is_date	
	7.1.18	is_tempfile	
	7.1.19	is_thumbnail	
	7.1.20	is_config	
	7.1.21	is_encryptedfile	
	7.1.22	is_document	
	7.1.23	is_image	
	7.1.24	is_rawimage	
	7.1.25	is_aiimage	
	7.1.26	is_video	
	7.1.27	is_audio	
	7.1.28	is_mobilebrowser	
	7.1.29	is_iOS	
	7.1.30	copyrecursive	
	7.1.31	array_iunique	
	7.1.32	in_array_substr	
	7.1.33	createfilename	
	7.1.34	correctfile	
	7.1.35	correctpath	
	7.1.36	convertpath	
	7.1.37	convertlink	
	7.1.38	deconvertpath	
	7.1.39	deconvertlink	
	7.1.40	createviewlink	
	7.1.41	createaccesslink	
	7.1.42	createobjectaccesslink	
	<del></del>		. 55

7.1.43	createwrapperlink	65
7.1.44	createdownloadlink	
7.1.45	createmultidownloadlink	
7.1.45	cleandomain	
7.1.40	fileversion	
7.1.48	createversion	
7.1.49	rollbackversion	
7.1.50	deleteversion	
7.1.51	deleteversions	
7.1.52	loadfile_header	
7.1.53	loadfile_fast	
7.1.54	loadfile	70
7.1.55	loadlockfile	70
7.1.56	savefile	70
7.1.57	savelockfile	71
7.1.58	appendfile	71
7.1.59	lockfile	
7.1.60	unlockfile	
7.1.61	deletefile	
7.1.62	restoremediafile	
7.1.63	preparemediafile	
7.1.64	deletemediafiles	
7.1.65	avoidfilecollision	
7.1.66	substr_in_array	
7.1.67	downloadobject	
7.1.68	downloadfile	
7.1.69	loadcontainer	
7.1.70	savecontainer	76
7.1.71	checkworkflow	76
7.1.72	inherit_db_load	77
7.1.73	inherit_db_read	77
7.1.74	inherit_db_close	77
7.1.75	inherit_db_save	
7.1.76	inherit_db_getparent	
7.1.77	inherit_db_getchild	
7.1.78	inherit_db_setparent	
7.1.79	inherit_db_insertparent	
7.1.79	inherit_db_deleteparent	
7.1.80	createinstance	
7.1.82	editinstance	
7.1.83	deleteinstance	
7.1.84	createpublication	
7.1.85	editpublication	
7.1.86	editpublicationsetting	
7.1.87	deletepublication	81
7.1.88	createpersonalization	82
7.1.89	deletepersonalization	82
7.1.90	createtemplate	83
7.1.91	loadtemplate	83
7.1.92	edittemplate	
7.1.93	deletetemplate	
7.1.94	createuser	
7.1.95	edituser	
7.1.96	deleteuser	
7.1.90		
	creategroup	
7.1.98	editgroupdeletegroup	
7.1.99	deletegroup	
7.1.100	renamegroupfolder	୪/

7.1.101	deletegroupfolder	
7.1.102	renameworkflowfolder	88
7.1.103	deleteworkflowfolder	
7.1.104	createmediacat	
7.1.105	renamemediacat	
7.1.106	deletemediacat	
7.1.107	uploadtomediacat	
7.1.108	deletefrommediacat	
7.1.109	createfolder	
7.1.110	createfolders	
7.1.111	collectfolders	
7.1.112	copyfolders	
7.1.113	deletefolder	
7.1.114	renamefolder	
7.1.115	correctcontainername	
7.1.116	createobject	
7.1.117	uploadfile	
7.1.118	createmediaobject	
7.1.119	createmediaobjects	
7.1.120	editmediaobject	
7.1.121 7.1.122	manipulateobject	
	deletemarkobject	
7.1.123 7.1.124	deleteunmarkobjectdeleteenhiest	
7.1.124 7.1.125	deleteobject	
7.1.125 7.1.126	renameobjectrenamefile	
7.1.120	cutobject	
7.1.127	copyobject	
7.1.128	copyconnectedobject	
7.1.127	pasteobject	
7.1.130	lockobject	
7.1.132	unlockobject	
7.1.133	publishobject	
7.1.134	publishlinkedobject	
7.1.135	unpublishobject	
7.1.136	processobjects	
7.1.137	collectobjects	
7.1.138	manipulateallobjects	
7.1.139	remoteclient	
7.1.140	HTTP_Post	
7.1.141	HTTP_Get	
7.1.142	HTTP_Proxy	
7.1.143	loadbalancer	
7.1.144	savelog	107
7.1.145	deletelogdeletelog	108
7.1.146	debuglog	108
7.1.147	notifyusers	
7.1.148	sendlicensenotification	109
7.1.149	licensenotification	109
7.1.150	html_diff	110
7.1.151	createfavorite	
7.1.152	deletefavorite	110
7.1.153	rewrite_targetURI	
7.1.154	rewrite_homepage	
7.1.155	sendmessage	
	API Functions	
	etserverload	
722 a	etconfigvalue	112

7.2.3	getsession	112
7.2.4	getrequest	112
7.2.5	getrequest_esc	113
7.2.6	getuserip	113
7.2.7	getobjectlistcells	
7.2.8	getlanguageoptions	
7.2.9	getlanguagefile	
7.2.10	getcodepage	
7.2.10	getcodepage	
7.2.12	getescapedtext	
7.2.13	getsearchhistory	
7.2.14	gettaxonomy_sublevel	
7.2.15	gettaxonomy_childs	
7.2.16	gethierarchy_defintion	
7.2.17	gethierarchy_sublevel	116
7.2.18	getkeywords	117
7.2.19	getmetakeywords	117
7.2.20	getmetadescription	117
7.2.21	getgooglesitemap	
7.2.22	getlistelements	
7.2.23	getmetadata	
7.2.24	getmetadata_multiobjects	
7.2.25	getmetadata_container	
7.2.26	getobjectcontainergetobjectcontainer	
7.2.27	• •	
— . — .	getcontainer	
7.2.28	getwallpaper	
7.2.29	getcontainername	
7.2.30	getlocationname	
7.2.31	getthemelocation	
7.2.32	getcategory	
7.2.33	getpublication	122
7.2.34	getlocation	122
7.2.35	getobject	122
7.2.36	getmediacontainername	122
7.2.37	getmediafileversion	123
7.2.38	getobjectid	
7.2.39	getobjectlink	
7.2.40	getcontainerversions	
7.2.41	getlocaltemplates	
7.2.42	gettemplates	
7.2.42	gettemplateversions	
7.2.43	· ·	
	getfileinfo	
7.2.45	getobjectinfo	
7.2.46	getfilesize	
7.2.47	getmimetype	
7.2.48	getfiletype	
7.2.49	getpreviewwidth	127
7.2.50	getpdfinfo	127
7.2.51	getvideoinfo	127
7.2.52	getbrowserinfo	128
7.2.53	getcontentlocation	
7.2.54	getmedialocation	
7.2.55	getlockedfileinfo	
7.2.56	getfavorites	
7.2.57	getboxesgetboxes	
7.2.58	getusersonline	
7.2.59	•	
	getchatstate	
7.2.60	getimagelib	130

7.2.61	getfilenamegetfilename	130
7.2.62	gethypertag	
7.2.63	gethypertagname	
7.2.64	gethtmltag	
7.2.65	gethtmltags	
7.2.66	getattribute	
7.2.67	getoption	
7.2.68	getcharset	
7.2.69	getartid	
7.2.70	getelementid	
7.2.71	getfirstkey	
7.2.72	getdirectoryfiles	
7.2.72	getuserinformation	
7.2.73	getworkflowitem	
	et API Functions	
7.3.1	setsession	
7.3.2	settaxonomy	
7.3.3	setarticle	
7.3.4	settext	
7.3.5	setmedia	
7.3.6	setpagelink	
7.3.7	setcomplink	137
7.3.8	sethead	137
7.3.9	setfilename	138
7.3.10	setboxes	138
7.4 Cd	onnect API Functions	
7.4.1	ftp_userlogon	
7.4.2	ftp_userlogout	
7.4.3	ftp_getfile	
7.4.4	ftp_putfile	
7.4.4	ftp_filelist	
	<u>,  —</u>	
7.4.6	createsharelink_facebook	
7.4.7	createsharelink_twitter	
7.4.8	createsharelink_googleplus	
7.4.9	createsharelink_linkedin	
7.4.10	createsharelink_pinterest	
7.5 S€	ecurity API Functions	
7.5.1	rootpermission	
7.5.2	globalpermission	142
7.5.3	localpermission	142
7.5.4	accessgeneral	142
7.5.5	accesspermission	143
7.5.6	setlocalpermission	143
7.5.7	checkpublicationpermission	
7.5.8	checkadminpermission	
7.5.9	checkrootpermission	
7.5.10	checkglobalpermission	
7.5.10	checklocalpermission	
	•	
7.5.12	userlogin	
7.5.13	registerinstance	
7.5.14	createchecksum	
7.5.15	writesession	
7.5.16	writesessiondata	
7.5.17	createsession	
7.5.18	killsession	147
7.5.19	checkdiskkey	
7.5.20	checkpassword	147
7.5.21	loguserip	148

7.5.22	checkuserip	
7.5.23	checkuserrequests	148
7.5.24	checkusersession	149
7.5.25	allowuserip	149
7.5.26	valid_objectnamevalid_objectname	149
7.5.27	valid_locationname	
7.5.28	valid_publicationname	
7.5.29	html_encode	
7.5.30	html_decode	
7.5.30		
	scriptcode_encode	
7.5.32	scriptcode_extract	
7.5.33	scriptcode_clean_functions	
7.5.34	sql_clean_functions	
7.5.35	url_encode	
7.5.36	url_decode	
7.5.37	shellcmd_encode	
7.5.38	hcms_crypt	153
7.5.39	hcms_encrypt	153
7.5.40	hcms_decrypt	153
7.5.41	createtimetoken	
7.5.42	checktimetoken	
7.5.43	createtoken	
7.5.44	checktoken	
7.5.45	createuniquetoken	
7.5.46	rand_secure	
	dia API Functions	
7.6.1	indexcontent	
7.6.2	unindexcontent	
7.6.3	reindexcontent	
7.6.4	createthumbnail_indesign	
7.6.5	createthumbnail_video	
7.6.6	createmedia	
7.6.7	convertmedia	158
7.6.8	convertimage	159
7.6.9	rotateimage	160
7.6.10	getimagecolors	160
7.6.11	getimagecolorkey	160
7.6.12	hex2rgb	
7.6.13	rgb2hex	
7.6.14	readmediaplayer_config	
7.6.15	savemediaplayer_config	
7.6.16	createdocument	
7.6.10	unzipfile	
	· ·	
7.6.18	clonefolder	
7.6.19	zipfiles	
7.6.20	px2mm	
7.6.21	px2inch	
7.6.22	inch2px	
7.6.23	mediasize2frame	165
7.6.24	vtt2array	165
7.7 Me	tadata API Functions	
7.7.1	importmetadata	
7.7.2	createtaxonomy	
7.7.2	splitkeywords	
7.7.4	copymetadata	
7.7.4	extractmetadata	
7.7.5 7.7.6		
7.7.6 7.7.7	xmlobject2arrayid3_getdata	
		16/

7	7.8	id3_writefile	160
	7.9	id3_create	
	7.10	xmp_getdata	
	7.11	xmp_writefile	
	7.12	xmp_create	
	7.13	geo2decimal	
7.	7.14	exif_getdata	
7.	7.15	iptc_getdata	
7.	7.16	iptc_getcharset	170
7.	7.17	iptc_maketag	171
7.	7.18	iptc_writefile	171
7.	7.19	iptc_create	171
7.	7.20	createmapping	172
7.	7.21	getmapping	
7.	7.22	setmetadata	
7.8	Lin	k API Functions	
	8.1	link_db_restore	
	8.2	link_db_load	
	8.3	link_db_read	
	8.4	link_db_close	
	8.5	link_db_save	
	8.6	link_db_update	
		·	
	8.7	link_db_insert	
	8.8	link_db_delete	
	8.9	link_db_getobject	
	8.10	link_update	
	8.11	getlinkedobject	
	8.12	getconnectedobject	
7.	8.13	extractlinks	
7.9		gin API Functions	178
7.	9.1	plugin_getdefaultconf	178
7.	9.2	plugin_readmenu	178
7.	9.3	plugin_parse	178
7.	9.4	plugin_generatedefinition	179
7.	9.5	plugin_saveconfig	179
7.	9.6	plugin_generatelink	
7.10	) Use	er Interface API Functions	
	10.1	windowwidth	
7.	10.2	windowheight	
	10.3	toggleview	
	10.4	togglesidebar	
	10.5	setfilter	
	10.6	objectfilter	
	10.7	showshorttext	
	10.8	showtopbar	
	10.9	showtopmenubar	
	10.7	·	
	10.10	9	
		showinfopage	
	10.12		
	10.13		
	10.14		
	10.15	•	
	10.16		
	10.17	· ·	
	10.18		
	10.19		
	10.20	· —	
7.	10.21	showinlineeditor	188

	7.10.22	showvideoplayer	188
	7.10.23	showvideoplayer_head	189
	7.10.24	showaudioplayer	189
	7.10.25	showaudioplayer_head	189
	7.10.26	debug_getbacktracestring	190
	7.10.27	showAPIdocs	190
	7.10.28	readnavigation	190
	7.10.29	createnavigation	191
	7.10.30	shownavigation	
	7.10.31	showselect	
	7.10.32	showtranslator	
	7.10.33	showmapping	
7.	11 Temp	plate Engine API Functions	
	7.11.1	checklanguage	
	7.11.2	checkgroupaccess	
	7.11.3	transformlink	
	7.11.4	followlink	
	7.11.5	errorhandler	
	7.11.6	viewinclusions	
	7.11.7	buildview	
	7.11.8	buildsearchform	
	7.11.9	buildbarchart	
7		API Functions	
٠.	7.12.1	valid_tagname	
	7.12.1	setxmlparameter	
	7.12.2	getcontent	
	7.12.3		
	7.12.4	geticontentgetymleentent	
	7.12.5	getxmlcontent	
		getxmlicontent	
	7.12.7	selectcontent	
	7.12.8	selecticontent	
	7.12.9	selectxmlcontent	
	7.12.10	selectxmlicontent	
	7.12.11	deletecontent	
	7.12.12	deleteicontent	
	7.12.13	setcontent	
	7.12.14	seticontent	
	7.12.15	setcontent_fast	
	7.12.16	updatecontent	
	7.12.17	insertcontent	
	7.12.18	inserticontent	
	7.12.19	addcontent	
	7.12.20	addicontent	
7.	13 Repor	rt API Functions	
	7.13.1	createreport	206
	7.13.2	editreport	206
	7.13.3	loadreport	207
	7.13.4	deletereport	207
	7.13.5	analyzeSQLselect	207
	7.13.6	showpiechart	
	7.13.7	showcolumnchart	
	7.13.8	showtimelinechart	
	7.13.9	showgeolocationchart	
7.		ct API Functions	
	7.14.1	createproject	
	7.14.2	editproject	
	7.14.3	deleteproject	
	7.14.4	getprojectstructure	

	7.14	.5	showprojectrecord	212
	7.14	.6	showganttchart	212
	7.15	Task	API Functions	213
	7.15	.1	createtask	213
	7.15	.2	edittask	213
	7.15	.3	deletetask	214
	7.15	. 4	tasknotification	214
	7.16	Work	flow API Functions	215
	7.16	.1	deleteworkflow	215
	7.16	.2	buildworkflow	215
	7.16	.3	workflowaccept	215
	7.16	. 4	acceptobject	216
	7.16	.5	workflowreject	216
	7.16	.6	rejectobject	217
	7.17	Cloud	Storage API Functions	217
	7.17	.1	loadcloudobject	217
	7.17	.2	savecloudobject	217
	7.17	.3	copycloudobject	218
	7.17	. 4	renamecloudobject	218
	7.17	.5	deletecloudobject	219
	7.17	.6	synccloudobjects	219
	7.18	Impo	rt/Export API Functions	219
	7.18	.1	exportobjects	219
	7.18	.2	importobjects	220
8	Lega	I refe	rence / flag	221
	8.1	Ques	tions and suggestions	221
			int	
	8.3	Legal	information	221

# 1 Introduction

The following chapters deal with the function libraries of the hyper Content & Digital Asset Management Server and thus provide the documentation of the API (Application Programming Interface).

All libraries are located within the hyperCMS installation in the folder "function" and can be integrated and used in the respective scripts or templates. This can be used, for example, to create dynamic pages (applications) using the XML content repository.

If you run your application on a physically separated server, it is important that the function libraries are also available on the publication server. In this case you need to have access to the corresponding files on the publication server as well.

# 2 hyperCMS XML-Content-Repository

The XML content repository includes all XML Content Container and thus provides all content in native XML. The structure (schema) within an XML content container is dynamically generated based on the template used and has the following appearance:

```
<?xml version="1.0" encoding="UTF-8" ?>
<container>
 <hyperCMS>
  <contentcontainer>0000023.xml</contentcontainer>
  <contentxmlschema>object/page</contentxmlschema>
  <contentorigin>%page%/Publication/testpage.php</contentorigin>
  <contentobjects>%page%/Publication/testpage.php|%page%/ Publication/linkedcopy_of_testpage.php
|</contentobjects>
  <contentuser>demouser</contentuser>
  <contentcreated>2002-12-01 10:02:40</contentcreated>
  <contentdate>2004-11-26 14:32:33</contentdate>
  <contentpublished>2004-11-26 14:39:41</contentpublished>
 <contentstatus>active</contentstatus>
 </hyperCMS>
 <head>
  <pagetitle>test</pagetitle>
  <pageauthor>Mr. Content</pageauthor>
  <pagedescription>just a small demonstration</pagedescription>
  <pagekeywords>demo of XML</pagekeywords>
  <pagecontenttype>text/html; charset=UTF-8</pagecontenttype>
  <pagelanguage>de</pagelanguage>
  <pagerevisit></pagerevisit>
 </head>
 <textcollection>
  <text>
   <text id>headline</text id>
   <textuser>demouser</textuser>
   <textcontent>fgfdgfdg</textcontent>
  </text>
  <text>
   <text_id>summary</text_id>
   <textuser>demouser</textuser>
   <textcontent><![CDATA[This is a
   <STRONG><EM>summary</EM></STRONG>]]></textcontent>
  </text>
 </textcollection>
 <mediacollection>
  <media>
   <media_id>logo</media_id>
   <mediauser>otheruser</mediauser>
   <mediafile>Publication/demo_hcms0000033.jpg</mediafile>
   <mediaobject>%page%/Publication/Multimedia/demo.jpg</mediaobject>
   <mediaalttext>demoimage</mediaalttext>
   <mediaalign></mediaalign>
   <mediawidth>200</mediawidth>
   <mediaheight>100</mediaheight>
  </media>
```

```
</mediacollection>
 linkcollection>
  link >
    link_id>verweis</link_id>
    <linkuser>demouser</linkuser>
    <linkhref>http://localhost/index.php</linkhref>
   <linktarget>_blank</linktarget>
    linktext > click me</linktext>
  </link>
 </linkcollection>
 <componentcollection>
  <component>
    <component id>teasers/component id>
    <componentuser>otheruser</componentuser>
    <componentcond>$customer == "private"</componentcond>
    <componentfiles>%comp%/Publication/teaser_1.php|%comp%/Publication/teaser_2.php|/componentfiles>
  </component>
  <component>
    <component_id>banner</component_id>
    <componentuser>demouser</componentuser>
    <componentcond></componentcond>
    <componentfiles>%comp%/banner.php</componentfiles>
  </component>
 </componentcollection>
 <articlecollection>
  <article>
    <article_id>news</article_id>
    <articletitle>Top News</articletitle>
    <articledatefrom>2002-10-01</articledatefrom>
    <articledateto>2002-11-01</articledateto>
    <articlestatus>active</articlestatus>
    <articleuser>demouser</articleuser>
    <articletextcollection>
     <text>
      <text_id>news:headline</text_id>
      <textuser>demouser</textuser>
      <textcontent>News from Scene</textcontent>
     </text>
    </articletextcollection>
    <articlemediacollection>
    </articlemediacollection>
    <articlelinkcollection>
    </articlelinkcollection>
    <articlecomponentcollection>
    </articlecomponentcollection>
  </article>
  <article>
    <article_id>special</article_id>
    <articletitle>Special Info</articletitle>
    <articledatefrom>2002-01-01</articledatefrom>
    <articledateto>2002-01-01</articledateto>
    <articlestatus>inactive</articlestatus>
    <articleuser>otheruser</articleuser>
    <articletextcollection>
     <text>
      <text_id>special:informations</text_id>
      <textuser>otheruser</textuser>
      <textcontent><![CDATA[<STRONG><FONT color=#cc0033>What is really going on behind the
Scene</FONT></STRONG>... find it out]]></textcontent>
     </text>
    </articletextcollection>
    <articlemediacollection>
    </articlemediacollection>
    <articlelinkcollection>
    </articlelinkcollection>
    <articlecomponentcollection>
    </articlecomponentcollection>
  </article>
 </articlecollection>
</container>
```

After a review of the content container, a structure can be seen, which is composed of the following main elements for content storage:

- hyperCMS specific information
- Meta-information
- Text
- Media (images or other multimedia files)
- Links
- Components
- Articles

The entire content is made up of these basic elements whose information is stored within XML tags.

Articles include the elements text, media and links as well. The entire contents of a page or component can be obtained from the associated content containers.

# 2.1 hyperCMS specific information

The data collected in this XML node represent primarily relevant information for the management of the container.

#### **Description:**

contentstatus

contentcontainer

contentxmlschema

Content Content Container (unique for all publications)

Schema of the Object: page (page) or component (comp)

Object (page or component) that led tot he creation of the Content

Containers

contentobjects All objects which use the Container

contentuser Object owner (user)

contentdate Date of the last changes of the Containers

contentpublished Date of the last publishing of the object based on the Content Container

Status can be "active" if an object using the Cotainer exists. If all objects

using the Container have been removed, the status will be set to

"deleted". The Container therefore holds the last published information,

but it can not be used anymore.

# 2.2 Meta-Information

The standard meta-information of a HTML page is described in this XML node.

```
<head>
  <pagetitle>test</pagetitle>
  <pageauthor>Mr. Content</pageauthor>
  <pagedescription>just a small demonstration</pagedescription>
  <pagekeywords>demo of XML</pagekeywords>
  <pagecontenttype>text/html; charset=UTF-8</pagecontenttype>
  <pagelanguage>de</pagelanguage>
  <pagerevisit></pagerevisit></head></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pagerevisit></pa
```

# **Description:**

pagetitle Page title pageauthor Author

pagedescription Description of the content of a page

pagekeywords List of keywords oft he page

pagecontenttype Content-Type (character set) of the page or component

pagelanguage Language shortcut of the page pagerevisit Search engine revisit of the page

# 2.3 Text

This XML-node stores the text.

<text>
<text\_id>headline</text\_id>
<textuser>demouser</textuser>
<textcontent>fgfdgfdg</textcontent>
</text>

# **Description:**

text\_id Text identification

textuser Text owner (last changes of the Text by a user)

textcontent text content

# 2.4 Media

This XML-node describes an included media file.

```
<media>
<media_id>logo</media_id>
<media_id>logo</media_id>
<mediauser>otheruser</mediauser>
<mediaile>Publication/demo_hcms0000033.jpg</mediafile>
<mediaobject>%page%/Publication/Multimedia/demo.jpg</mediaobject>
<mediaalttext>demoimage</mediaalttext>
<mediaalign></mediaalign>
<mediawidth>200</mediawidth>
<mediaheight>100</mediaheight>
</media>
```

# **Description:**

media\_id Media identification

mediauser Media owner (last changes of the Media by a user)

mediafile included multimedia file and declaration of the Publication

mediaobject Location of the multimedia file mediaalttext Alternative text of the multimedia file mediaalign Alignment of the multimedia file medawidth Displayed width of the multimedia file mediaheight Displayed height of the multimedia file

# 2.5 Links

This XML-node describes the link to a page or file.

# **Description:**

link id Link identification

linkuser Link owner (last changes of the Link by a user)

linkhref Reference (Link) to a page or file

linktarget Target of the reference (name of the target frame)

linktext Text describing the link

# 2.6 Components

This XML-node describes the reference to Components.

```
<component>
  <component_id>teasers</component_id>
  <componentuser>otheruser</componentuser>
  <componentcond>$customer == "private"</componentcond>
  <componentfiles>%comp%/teaser_1.php|%comp%/teaser_2.php|</componentfiles>
</component>
```

#### **Description:**

component\_id Component identification

componentuser Component owner (last changes of the Component reference by a user)

componentcond assigned customer Profile to the Component

componentfiles Reference (Component-link) to a single or multiple Components

# 2.7 Articles

This XML-node describes the article information.

```
<article>
<article_id>news</article_id>
<article_id>news</article_id>
<articletitle>Top News</articletitle>
<articledatefrom>2002-10-01</articledatefrom>
<articledateto>2002-11-01</articledateto>
<articlestatus>active</articlestatus>
<articleuser>demouser</articleuser>
<articletextcollection>
</articletextcollection>
</article>
```

#### **Description:**

article\_id Article identification articletitle Title of the Article

articeldatefrom Publishing date of the Article End date of publishing the Article articlestatus Publishing settings of the Article:

active = always published/displayed inactive = never published/displayed

timeswitched = scheduled publishing/display

articleuser Article owner (last changes of the Article by a user)

articlecollection Holds all content of the Article

# 3 Function libraries

# 3.1 Including a library

The inclusion of a configuration or library requires that you know the absolute or relative path to the library. By using the function "require" or "require\_once" and specifying the path to the library file all functions contained in the library will be available. Once the library is included, all functions can be used in the script.

To use the hyperCMS functions, the file "hypercms\_api.inc.php" needs to be included. This file contains all functions required for programming.

```
// absolute path on MS Windows
require_once ("C:/inetpub/wwwroot/hypercms/function/hypercms_api.inc.php");
// relative path on MS Windows or Linux/UNIX
require_once ("function/hypercms_api.inc.php");
```

# 3.2 Loading the configuration

# 3.2.1 Content Management Server

To use the main configuration of hyperCMS the appropriate configuration file must be loaded. The main configuration will be loaded when including the hyperCMS API. However you can also load it in your script.

Using the variable \$site for the identification of a publication, the publication can be loaded as well. The hyperCMS config file is located in "hypercms/config" and is named "config.inc.php". The publication config files are located in hyperCMS Data directory in the directory "data/config". Its filename holds the name of the publication as well as the ending "inc.php.", example: site.inc.php.

```
// Inlcude the main config file (please set the correct path):
require_once ("C:/inetpub/wwwroot/hypercms/config.inc.php");

// Include publication management config file
// Attention: Please use valid_publicationname to verify the name before including the file
if (valid_publicationname ($site))
{
    require_once ($mgmt_config['abs_path_data']."config/".$site.".conf.php");
}
```

The config files can be opened and read. Each parameter is described therein and is available for use in programs. Therefore, please take a look at the configuration to learn more about the parameters and their names.

If you want to set a specific language language, the variable \$lang need to be set. \$lang contains the language code, which is defined in the main configuration file "hypercms/config/config.inc.php".

```
// Set the language for messages in functions, German (de)
$lang = "de";
```

Since you want to use the hyperCMS API you need to include the hyperCMS API loader.

```
// Include the hyperCMS API: require_once ($mgmt_config['abs_path_cms']."/function/hypercms_api.inc.php");
```

Now you can start using the API functions. For instance loading the content container of an object using various methods:

```
// Loading the page $pagedata = loadfile ("%page%/MyPublication/home/", "index.php");

// Reading the name of the content container $contentcontainer = filepointer ($pagedata, "content");

// Loading the live content container from the content repository $containerdata = loadcontainer ($contentcontainer, "published", $user);

// Or even more simple by using the direct path to the object $containerdata = getobjectcontainer ("MyPublication", "%page%/MyPublication/home/", "index.php", $user);
```

The functions will also load the publication specific configuration in case it is not provided. Since many features require the settings of a publication, it is advisable to include the configuration before you plan any actions.

# 3.2.2 Publication Server

Note that the configuration of the publication server (publication target) is stored separately in an INI file. If you will need the publication target settings, you must load and parse the INI file. After that you can access the settings as an array.

The INI file of the publication target is located in the external repository in the directory "repository/config". The file name corresponds to the name of the publication with the file extension ".ini".

```
// Load and parse the INI file using PHP
$publ_config = parse_ini_file ("C:/inetpub/wwwroot/repository/config/Mandant_1.ini");
// Access the settings oft he publication target
echo "This is the document root of the publication:".$publ_config[abs_publ_page];
```

#### 3.3 Global variables

Many functions use global variables that are stored in the configuration and are available to functions as global. You should therefore take care that those global variable names of hyperCMS are not changed in your scripts.

The following list shows all global variables of hyperCMS, which must not be changed with in your own scripts:

\$mgmt\_config \$lang \$lang\_name \$lang\_shortcut \$lang\_codepage \$lang\_shortcut\_default Many global variables of hyperCMS are useful for use in hyperCMS scripts and PHP scripts, these are only available if the corresponding configuration has been loaded, or a hyperCMS script (used only during the publication process) is in use. Since this happened in the preview as well when publishing pages and components, these variables can be used in hyperCMS scripts. For dynamic applications that are executed each time a visitor accesses a page or component, the configuration must be integrated directly in the template, if hyperCMs variables are required.

#### **Content Management Server:**

language shortcut according to config.inc.php \$lang \$mgmt\_config['url\_path\_cms']

URL of the hyperCMS root directory according to config.inc.php

**\$mgmt\_config[**'abs\_path\_cms'] absolute path to the hyperCMS root directory according to

config.inc.php

\$mgmt\_config['url\_path\_page'] URL of the document root of the publication in the

management system

**\$mgmt\_config[**'abs\_path\_page'] absolute of the document root of the publication in the

management system

**\$mgmt\_config[**'url\_path\_comp'] URL of the component root directory of the publication in

the management system

\$mgmt\_config['abs\_path\_comp']absolute path of the component root directory of the

publication in the management system

#### **Publication Server:**

hyperCMS scripts can access variables at any time. The values are stored in the array \$publ\_config, but are also optionally available without the array. If the script/application will be executed at each access of a page or component on the publication target, the configuration file must be loaded separately.

**\$publ\_config[**'url\_publ\_page'] URL of the document root of the publication target **\$publ\_config[**'abs\_publ\_page'] absolute path of the document root of the publication

target

**\$publ\_config[**'url\_publ\_comp'] URL of the document root of the publication target **\$publ\_config[**'abs\_publ\_comp'] absolute path of the document root of the publication

target

Optional (deprected):

URL of the document root of the publication target \$url\_publ\_page \$abs\_publ\_page absolute path of the document root of the publication

URL of the document root of the publication target \$url\_publ\_comp absolute path of the document root of the publication \$abs\_publ\_comp

target

# 3.4 Template variables

There is also the possibility to use hyperCMS template variables in templates. These variables are a special feature, since they don not need to be used in hyperCMS script. Rather, they are placeholder for the value of a variable and can be used in any template.

This neutral form of the variables should primarily be used in templates, providing a more technology-neutral usage.

Please pay attention to the lower case of all variables!

**%container%** provides the name of the content containers of an object.

**%template%** provides the file name oft he used template of the object.

**%object%** provides the name oft he object.

%date% provides the actual date in the format YYYY-MM-DD.

For the integration of media files a path variable can be used. This path variable will be replaced by the URL (address) of publication target when publishing a page or component:

**%media%** provides the URL of the content media repository.

**%tplmedia%** provides the URL of the tempate media repository.

Also the document roots of pages and components of the publication target can be provided:

%url\_page% provides the root URL of the pages document root.

**%abs\_page%** provides the path to root directory of the pages document root.

**%url\_comp%** provides the root URL of the components document root.

**%abs\_comp%** provides the path to root directory of the components document root.

If you are using the hyperCMS APIs, it is often advisable to use the place holders %page% and %comp% to access the document root of pages and components. This path variables can be used only on the management side.

It should be noted that the variable is always paired with the publication name to form the root directory, eg:

%page%/besttrade/ .... Pages document root of the publication "besttrade"

**%page%/Publikationsname/** provides the path to root directory of the pages document root.

**%comp%/Publikationsname/** provides the path to root directory of the components document root.

# 3.5 Object operation library

This library contains all functions for the manipulation of objects (pages, components or files). You should only use these functions to access objects that are managed by the system.

#### 3.5.1 createfolder

### Syntax:

createfolder (\$site, \$location, \$foldernew, \$user)

#### **Description:**

Creates a new folder.

Example:

\$result = createfolder ("besttrade", "%page%/besttrade/", "company", "brown");

Input-Parameters:

\$site Name of the publication

\$location absolute path (location of the new folder)

\$foldernew Name of the new folder

\$user User name

# globale Input-Parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

Output:

Array \$result holds the following information:

\$result[result] True/False (has the folder been created successfully)

\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[folder] Name of the folder

#### 3.5.2 deletefolder

#### Syntax:

deletefolder (\$site, \$location, \$folder, \$user)

#### **Description:**

Removes an existing folder. The folder is removed only if it contains no more objects. All objects must therefore be removed by using the function deleteobject.

#### Example:

\$result = deletefolder ("besttrade", "%page%/besttrade/", "company", "brown");

#### Input parameters:

\$site Name of the publication

\$location absolute path (location of the folder)

\$folder Name of the folder

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

# **Output:**

Array \$result holds the following information:

\$result[result] True/False (has the folder been removed successfully)

\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message \$result[folder] Name of the existing folder is not successful, otherwise empty

# 3.5.3 renamefolder

#### Syntax:

renamefolder (\$site, \$location, \$folder, \$foldernew, \$user)

# **Description:**

Renames an existing folder.

Example:

\$result = renamefolder ("besttrade", "%page%/besttrade/", "company", "news", "Miller");

Input parameters:

\$site Name of the publication

\$location absolute path (location of the folder)

\$folder old folder name \$foldernew new folder name \$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

**Output:** 

Array \$result holds the following information:

\$result[result] True/False (Could the folder be renamed successfully)

\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[folder] Name of the folder

# 3.5.4 createobject

#### Syntax:

createobject (\$site, \$location, \$object, \$template, \$user)

# **Description:**

Creates a new page or component based on a template. Please note that the location (\$location) defines the category of the object (page/component) as well. This implies further that it the value of the parameter \$template must provide a valid page or component template.

#### Example:

\$result = createobject ("besttrade", "%page%/besttrade/", "index", "page\_main", "Miller");

# Input parameters:

\$site Name of the publication

\$location absolute path (location of the object)

\$object Name off he new object (page or component)

\$template Name of the page or component template (name of the template

or template file name)

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

#### **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[object] File name of the page or component \$result[objectname] Name of the page or component \$result[objecttype] File-type or file extension of the file

# 3.5.5 deleteobject

#### Syntax:

deleteobject (\$site, \$location, \$object, \$user)

# **Description:**

Removes an existing page, file or component.

Example:

\$result = deleteobject ("besttrade", "%page%/besttrade/", "sales.doc", "Miller");

Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

#### global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

**Output:** 

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[publication] Name of the publication where the object is located

\$result[location] absolute path (location of the Object)
\$result[object] File name of the page, file or component
\$result[objectname] Name of the page, file or component
\$result[objecttype] File-type or file extension of the file

# 3.5.6 renameobject

#### Syntax:

renameobject (\$site, \$location, \$object, \$objectnew, \$user)

# **Description:**

Renames an existing page, file or component.

Example:

\$result = renameobject ("besttrade", "%page%/besttrade/", "sales.doc", "best.doc",
"Miller");

#### Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object old name of the object

\$objectnew new name of the object (without file extension)

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

# Output:

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[publication] Name of the publication where the object is located

\$result[location] absolute path (location of the Object)
\$result[object] File name of the page, file or component
\$result[objectname] Name of the page, file or component
\$result[objecttype] File-type or file extension of the file

# 3.5.7 cutobject

#### Syntax:

cutobject (\$site, \$location, \$object, \$user)

#### **Description:**

Cut an existing page, file or component.

Example:

\$result = cutobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

#### Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

#### **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[object] File Name of the page, file or component \$result[objectname] Name of the page, file or component \$result[objecttype] File-type or file extension of the file

\$result[clipboard] temporary entry in the clipboard (can be passed as global

variable \$clipboard to the function pasteobject, so reading the

temporary file is not necessary)

# 3.5.8 copyobject

#### Syntax:

copyobject (\$site, \$location, \$object, \$user)

# **Description:**

Copy an existing page, file or component.

Example:

\$result = copyobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

#### global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

**Output:** 

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[object] File name of the page, file or component \$result[objectname] Name of the page, file or component \$result[objecttype] File-type or file extension of the file

\$result[clipboard] temporary entry in the clipboard (can be passed as global

variable \$clipboard to the function pasteobject, so reading the

temporary file is not necessary)

# 3.5.9 copyconnectedobject

#### Syntax:

copyconnectedobject (\$site, \$location, \$object, \$user)

# **Description:**

Connected copy an existing page, file or component sharing the same content container.

#### Example:

\$result = copyconnectedobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

#### Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

#### global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

#### **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[object] File name of the page, file or component \$result[objectname] Name of the page, file or component \$result[objecttype] File-type or file extension of the file

\$result[clipboard] temporary entry in the clipboard (can be passed as global

variable \$clipboard to the function pasteobject, so reading the

temporary file is not necessary)

# 3.5.10 pasteobject

#### Syntax:

pasteobject (\$site, \$location, \$user)

#### **Description:**

Paste Einfügen an existing page, file or component.

Example:

\$result = pasteobject ("besttrade", "%page%/besttrade/", "Miller");

Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$user User name

\$clipboard temporary entry in the clipboard (can be passed as global

variable \$clipboard to the function pasteobject, so reading the

temporary file is not necessary)

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

**Output:** 

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[publication] Name of the publication where the object is located

\$result[location] absolute path (location of the Object)
\$result[object] File name of the page, file or component
\$result[objectname] Name of the page, file or component
\$result[objecttype] File-type or file extension of the file

# 3.5.11 lockobject

#### Syntax:

lockobject (\$site, \$location, \$object, \$user)

#### **Description:**

Locking of one or more existing pages or components based on the same content containers for the exclusive use of a user.

#### Example:

\$result = lockobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

# Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

# **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[object] File name of the page, file or component \$result[objectname] Name of the page, file or component \$result[objecttype] File-type or file extension of the file

# 3.5.12 unlockobject

#### Syntax:

unlockobject (\$site, \$location, \$object, \$user)

#### **Description:**

Unlocking of one or more existing pages or components based on the same content containers for the exclusive use of a user.

#### Example:

\$result = unlockobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

# Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

# **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

\$result[object] File name of the page, file or component \$result[objectname] Name of the page, file or component \$result[objecttype] File-type or file extension of the file

# 3.5.13 publishobject

#### Syntax:

publishobject (\$site, \$location, \$object, \$user)

# **Description:**

Publishing a page or component. All connected copies of the object and its content container will be published as well. If a workflow is in use and does not permit the publishing, the object will not be published.

#### Example:

\$result = publishobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

# Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

# **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

# 3.5.14 unpublishobject

#### Syntax:

unpublishobject (\$site, \$location, \$object, \$user)

# **Description:**

Unpublishing a page or component. Link and task management will be executed automatically. All connected copies of the object and its content containers will be unpublished as well.

#### Example:

\$result = unpublishobject ("besttrade", "%page%/besttrade/", "index.php", "Miller");

# Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

# global input parameters:

The following global input parameters need to be passed to the function:

\$lang Language setting or language shortcut, e.g. "en", "de"

#### **Output:**

Array \$result holds the following information:

\$result[result] True/False (result of the action)
\$result[add\_onload] JavaScript code for the onLoad event

\$result[message] Message regarding the result of the action or error message

# 3.5.15 getlinkedobject

#### Syntax:

getlinkedobject (\$site, \$location, \$object, \$cat)

# **Description:**

This function extracts all objects that have a reference to the given object. This may be page or component links. If the object is a page, then all objects which have a page link to the object will be determined. If the object is a component, all objects which have a component link to the object will be determined.

#### Example:

\$result = getlinkedobject ("besttrade", "%page%/besttrade/", "index.php", "page");

# Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$cat optional: Objekt category [page, comp]

**Output:** 

Array \$result holds the following information:

\$result False (action was not successful)

\$result[publication] Name of the publication where the object is located

\$result[location] absolute path (location of the Object)

\$result[object] Name of the object

\$result[category] Object category [page, comp]

# 3.5.16 getconnectedobject

### Syntax:

getconnectedobject (\$site, \$container)

# **Description:**

This function determines all objects that are based on the same content container. The name of the content container of an object can be by extracted by the function "getfilename".

### Example:

\$result = getconnectedobject ("besttrade", "0000127.xml");

# Input parameters:

\$site Name of the publication

\$container Name of the content container

**Output:** 

Array \$result holds the following information:

\$result False (action was not successful)

\$result[publication] Name of the publication where the object is located

\$result[location] absolute path (location of the Object)

\$result[object] Name of the object

\$result[category]
Object category [page, comp]

# 3.5.17 getobjectcontainer

### Syntax:

getobjectcontainer (\$site, \$location, \$object, \$user)

# **Description:**

This function loads the content containers (XML string) of a particular object. The object can be a page, file, component or folder.

The desired content can be extracted from the XML-based container using the function "getcontent" or "selectcontent".

Example:

\$xmldata = getobjectcontainer ("besttrade", "%page%/Home/", "index.php", "demouser");

Input parameters:

\$site Name of the publication

\$location absolute path (location of the Object)

\$object Name of the object

\$user User name

**Output:** 

XML-String Content of the content container

False An error occured

# 3.5.18 loadcontainer

### Syntax:

loadcontainer (\$container)

#### **Description:**

This function loads the content container (XML string) by its name or by its ID (in this case, the current working container will be loaded by default).

The desired content can be extracted from the XML-based container using the function "getcontent" or "selectcontent".

### Example:

// Load the published container
\$xmldata1 = loadcontainer "00012345.xml");
// Load the working container
\$xmldata2 = loadcontainer ("00012345");

Input parameters:

\$container Name or ID (including zeros) of the container

**Output:** 

XML-String Content of the content container

# 3.5.19 savecontainer

### Syntax:

savecontainer (\$container, \$xmldata)

# **Description:**

This function stores the content containers (XML string) by its name or by its ID (in this case, the current working container will be loaded by default).

### Example:

// Save the published container
\$result = savecontainer ("00012345.xml", \$xmldata);
// Save the working container
\$result = savecontainer ("00012345", \$xmldata);

# Input parameters:

\$container Name or ID (including zeros) of the container \$xmldata Content of the containers as XML string

# Output:

True The function was executed successfully

# 3.6 File Pointer library

This function library allows you to determine or set the XML content container of an. You must have this object (page or component) loaded previously, e.g. via http or via the file system using the function "loadfile".

# 3.6.1 getfilename

### Syntax:

getfilename (\$filedata, \$tagname)

# **Description:**

The input of the function is the content of a page, file object or component and the desired tag name, either content, template or media. After that the file name of the associated content container, template, or multimedia file will be returned.

### Example:

// Load a page

\$filedata = loadfile ("%page%/myPublication/home/", "index.php");

// Load the content container

\$contentcontainer = filepointer (\$filedata, "content");

### Input parameters:

\$filedata Content

\$tagname Tag name [content, template, media]

### **Output:**

Filename The function was executed successfully and returns the file name of the content

Container, template or multimedia file

False An error occured or the object is not managed by the system

# 3.6.2 setfilename

### Syntax:

setfilename (\$filedata, \$tagname, \$value)

# **Description:**

The input of the function is the content of a page, file object or component, the tag name and a value for the file parameter of the tag. The return value off he function will be True if writing the value has been successful or False otherwise.

### Example:

\$result = setfilename (\$filedata, "template", "fullpage.page.tpl");

# Input parameters:

\$filedata Content of the page, file object or component

\$tagname Tag name [content, template, media]

\$value (File)name of the content container, multimedia file or template

# Output:

True The function was executed successfully

# 3.7 File operation library

The following functions for file operations should never be used to load or save objects (pages, components or files).

However you can use them to load and save XML content container, if you intend to develop extensions or applications.

#### 3.7.1 loadfile

### Syntax:

loadfile (\$abs\_path, \$filename)

### **Description:**

This function loads the content of a file. The absolute path and the filename itself must be provided as input parameters. The function waits usually up to 3 seconds to load locked files. If the user parameter \$user is set, the function can also read locked files of the given user.

### Example:

\$data = loadfile ("%page%/myPublication/home/", "index.php");

### Input parameters:

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

### **Output:**

File content The function was executed successfully and returns the content of the file

False An error occured

### 3.7.2 savefile

### Syntax:

savefile (\$abs\_path, \$filename, \$filedata)

#### **Description:**

This function saved content in files. The absolute path of the file name, and the content that will be written to the file needs to be passed as parameters. If the file is locked, it will not be saved and False will be returned.

# Example:

\$result = savefile ("%page%/myPublication/home/", "index.php", "text content");

### Input parameters:

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

\$filedata Content that will be saved in the file

# Output:

True The function was executed successfully

#### 3.7.3 loadlockfile

### Syntax:

loadlockfile (\$user, \$abs\_path, \$filename)

### **Description:**

This function allows to load the content of a file like the function "loadfile", but it is also triggers a locking mechanism for the file.

The function should only be used when the data will be saved again using the function "savelockfile". This ensures that no other write access by other users can take place. The user, the absolute path and the filename itself must be passed as a parameter to load and lock the file. To save and unlock the file the function "savelockfile" must be used.

### Example:

\$data = loadlockfile ("Miller", "%page%/myPublication/home/", "index.php");

### Input parameters:

\$user User name of the user who locked the file

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

### **Output:**

File content The function was executed successfully und liefert den Inhalt der Datei

False An error occured

### 3.7.4 savelockfile

### Syntax:

savelockfile (\$user, \$abs\_path, \$filename, \$filedata)

# **Description:**

The function "savefile" saved data and unlocks previously opened files using " loadlockfile". For this purpose, the user, the absolute path, the file name, and the content that needs to be written to the file must be passed as parameters.

#### Example:

savelockfile ("Miller", "%page%/myPublication/home/", "index.php", "file content");

### Input parameters:

\$user User name of the user who locked the file

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

\$filedata Content that will be saved in the file

### Output:

True The function was executed successfully

#### 3.7.5 lockfile

### Syntax:

lockfile (\$user, \$abs\_path, \$filename)

### **Description:**

The function "lockfile" locks a file for a specific user, so its available for the exclusive use. For this purpose, the user, the absolute path and the file name must be passed as a parameters.

#### Example:

lockfile ("Miller", "%page%/myPublication/home/", "index.php");

### Input parameters:

\$user User name of the user who locked the file

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

# Output:

True The function was executed successfully

False An error occured

#### 3.7.6 unlockfile

### Syntax:

unlockfile (\$user, \$abs\_path, \$filename)

# **Description:**

The function "unlockfile" unlocks files that have been previously locked by "lockfile" or opened by "loadlockfile". For this purpose, the user, the absolute path and the file name must be passed as a parameters.

#### Example:

unlockfile ("Miller", "%page%/myPublication/home/", "index.php");

### Input parameters:

\$user User name of the user who locked the file

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

### Output:

True The function was executed successfully

#### 3.7.7 deletefile

### Syntax:

deletefile (\$location, \$file, \$recursive)

#### **Description:**

With "deletefile" files and (empty) folders can be deleted. The absolute path, the file or directory name, and a parameter "recursive", which is either (0) or (1), need to be passed. If recursive is set to 1 the entire contents of the directory will be processed, including subdirectories and their files, using the value 0 only the file or directory (if empty) will be removed.

### Example:

deletefile ("%page%/myPublication/home/", "index.php", 0);

### Input parameters:

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$file file name

\$recursive 0 or 1, if subdirectories should removed recursively as well

# Output:

True The function was executed successfully

False An error occured

# 3.7.8 appendfile

# Syntax:

append (\$abs\_path, \$filename, \$filedata)

### **Description:**

With "appendfile" content can be added to a file. The function does not overwrite existing data of a file, it appends the data at the file end. For this the absolute path, the file name, and the content that needs to be written to the file must be passed as parameters.

### Example:

appendfile ("%page%/myPublication/home/", "index.php", "© 2003 ...");

### Input parameters:

\$abs\_path absolute path of the file, %page% and %comp% can be used as the root

elements of the path

\$filename file name

\$filedata Content that will be appended to the file

# Output:

True The function was executed successfully

# 3.8 Edit content library

The following functions allow yout to read and write content from XML content container. You can optionally query the contents of the container with other technologies that can deal with XML. However, the Edit Content library offers a very simple and performant way of doing this.

# 3.8.1 setxmlparameter

### Syntax:

setxmlparameter (\$xmldata, \$parameter, \$value)

### **Description:**

Set a specific value of the XML declaration (1.row).

Example:

\$xmldata = setxmlparameter (\$xmldata, "encoding", "UTF-8");

### Input parameters:

\$xmldata XML string that should be manipulated \$parameter Name of the tag that should be manipulated

\$value Value saved in the tag

Output:

XML-String Return of the manipulated XML string

# 3.8.2 getcontent

### Syntax:

getcontent (\$xmldata, \$tag)

# **Description:**

Retrieves the XML content from the content container that is located inside the tags \$tag. An array containing all content or childs found will be returned.

### Example:

```
// Get all text-childs from the content container
$text_array = getcontent ($xmldata, "<text>");
```

// Show all text-childs
foreach (\$text\_array as \$text) echo \$text;

# Input parameters:

\$xmldata XML string holding the content

\$tag Name of the tag holding the information or child nodes

### Output:

Array Array holding all found values, the first value can be accessed using the first

array element (Array[0])

# 3.8.3 getxmlcontent

### Syntax:

getxmlcontent (\$xmldata, \$tag)

### **Description:**

Retrieves the XML content from a content container that is located inside the tags \$tag and leaves in contrast to the function "getcontent" the XML tags in the return value (array). An entire node (well-formed) will therefore be returned.

An array containing all content and childs found will be returned and can be stored and used in a variable of type array.

# Example:

\$text\_array = getxmlcontent (\$xmldata, "<text>");
foreach (\$text\_array as \$text) echo \$text;

# Input parameters:

\$xmldata XML string holding the content

\$tag Name of the tag holding the information or child nodes

### Output:

Array Array holding all found values, the first value can be accessed using the first

array element (Array[0])

### 3.8.4 selectcontent

### Syntax:

selectcontent (\$xmldata, \$parenttag, \$childtag, \$childvalue)

### **Description:**

Retrieves the XML content defined by the tag \$parenttag from the content container, where the childtag \$childtag has a certain value \$value.

An array with all items found will be returned and can be stored and used in a variable of type array.

### Example:

```
Extract of a content container:
```

```
<text>
<texts
<text_id>summary</text_id>
<textuser>editor1</textuser>
<textcontent>This is my summary!</textcontent>
</text>

// Get all text-childs with id=summary
$text_array = selectcontent ($xmldata, "<text>", "<text_id>", "summary");

// Extract the summary from the found content
foreach ($text_array as $text)
{
    $summary = getcontent ($text, "<textcontent>");
}
```

# Input parameters:

\$xmldata XML string holding the content

\$parenttag Name of the tag holding the information or child nodes

\$childtag optional: XML tag that encloses the information that must be of a certain value optional: Value of the condition, the wildcard character \* can be used at the beginning and/or end of the term and is a wildcard for any further characters.

### **Output:**

Array Array holding all found values, the first value can be accessed using the first

array element (Array[0])

#### 3.8.5 selectxmlcontent

### Syntax:

selectxmlcontent (\$xmldata, \$parenttag, \$childtag, \$childvalue)

### **Description:**

Retrieves the XML content defined by the tag \$parenttag from the content container, where the childtag \$childtag has a certain value \$value. In contrast to the function "getcontent" the parent tags are included in the return value (array).

An array with all items found will be returned and can be stored and used in a variable of type array.

```
Example:
```

```
Extract of a content container:
.....
<text>
    <text_id>summary</text_id>
    <textuser>editor1</textuser>
    <textcontent>This is my summary!</textcontent>
</text>
.....
// Get all text-childs with id=summary
$text_array = selectxmlcontent ($xmldata, "<text>", "<text_id>", "summary");
// Extract the summary from the found content
foreach ($text_array as $text)
{
    $summary = getcontent ($text, "<textcontent>");
}
```

# Input parameters:

\$xmldata XML string holding the content

\$parenttag Name of the tag holding the information or child nodes

\$childtag optional: XML tag that encloses the information that must be of a certain value optional: Value of the condition, the wildcard character \* can be used at the beginning and/or end of the term and is a wildcard for any further characters.

### Output:

Array Array holding all found values, the first value can be accessed using the first

array element (Array[0])

# 3.8.6 deletecontent

### Syntax:

deletecontent (\$xmldata, \$tagname, \$condtag, \$condvalue)

# **Description:**

Removes the entire XML content defined by the tag \$tagname. For the selection of a certain child the appropriate XML childtag \$condtag and the enclosed information as \$condvalue as condition can be passed.

### Example:

Extract of a content container:

```
<text>
  <text-id>condition</text_id>
  <textuser>editor1</textuser>
  <textcontent>This is my summary!</textcontent>
</text>
.....
```

\$xmldata = deletecontent (\$xmldata, "<text>", "<text\_id>", "bedingung");

# Input parameters:

\$xmldata XML string holding the content

\$parenttag Name of the tag holding the information or child nodes that should

be removed

\$condtag optional: XML tag that encloses the information that must be of a certain

value

\$condvalue optional: Value of the condition

Output:

XML-String Return of the manipulated XML string

### 3.8.7 setcontent

### Syntax:

setcontent (\$xmldata, \$parenttagname, \$tagname, \$contentnew, \$condtag, \$condvalue)

# **Description:**

An XML string is passed and within a certain parent node (\$parenttagname) a certain parameter (\$condtag) must exists and must have a certain value (\$condvalue). If the condition is satisfied, the value of the parameter \$tagname will be replaced by the new value \$contentnew.

### Example:

```
Extract of a content container:
```

```
<text>
  <text_id>condition</text_id>
  <textuser>editor1</textuser>
  <textcontent>This is should set!<textcontent>
</text>
.....
```

\$xmldata = setcontent (\$xmldata, "<text>", "<textcontent>", "This is my new value!",
"<text\_id>", "condition");

# Input parameters:

\$xmldata XML string holding the content \$parenttagname optional: XML parent tag

\$tagname optional: XML child tag, that value should be replaced (if the condition

is met)

\$contentnew new value for the XML child tag \$tagmame

\$condtag optional: XML tag that encloses the information that must be of a certain

value

\$condvalue optional: Value for the condition

Output:

XML-String Return of the manipulated XML string

# 3.8.8 updatecontent

### Syntax:

updatecontent (\$xmldata, \$xmlnode, \$xmlnodenew)

# **Description:**

All XML strings \$xmlnode will be replaced by a new XML string \$xmlnodenew in \$xmldata. This method is faster than "setcontent" when the updated XML node has already been extracted from the container.

### Example:

Extract of a content container:

```
<text>
  <text_id>condition</text_id>
  <textuser>editor1</textuser>
  <textcontent>This is old content!<textcontent>
</text>
```

\$xmldata = updatecontent (\$xmldata, "<textcontent>This is old content!<textcontent> ",
"<textcontent>This is my new content!<textcontent>");

### Input parameters:

\$xmldata XML string holding the content

\$xmlnode XML string to be replaced (node or substring of \$xmldata)

\$xmlnodenew optional: new XML string, if empty, the existing XML string will be

removed.

**Output:** 

XML-String Return of the manipulated XML string

# 3.8.9 insertcontent

### Syntax:

insertcontent (\$xmldata, \$insertxmldata, \$tagname)

### **Description:**

Inserts an XML string (child node) before the end tag of the given XML parent tag. The modified XML string will be returned.

### Example:

```
Extract of a content container:
```

\$xmldata = insertcontent (\$xmldata, \$insertxmldata, "<articletextlist>");

# Input parameters:

\$xmldata XML string holding the content \$insertxmldata XML string that will be inserted

\$tagname optional: Include xml string before the end tag of the given

XML parent tag

# Output:

XML-String Return of the manipulated XML string

#### 3.8.10 addcontent

### Syntax:

addcontent (\$xmldata, \$sub\_xmldata, \$grandtagname, \$condtag, \$condvalue, \$parenttagname, \$tagname, \$contentnew)

### **Description:**

Example:

Within a parent node a child node will be added, provided that a certain value in the overlying grandparent node meets the condition. In the child node a value can be set as well. The modified XML string will be returned.

```
Extract of a content container:
<article>
 <article_id>art1</article_id>
 <articletitle></articletitle>
 <articledatefrom></articledatefrom>
 <articledateto></articledateto>
 <articlestatus>active</articlestatus>
 <articleuser></articleuser>
 <articletextlist>
  <text>
    <text id>art1:summary</text id>
    <textuser>editor1</textuser>
    <textcontent>This is my summary!</textcontent>
  </text>
----- The new child node will be inserted here -----
  <text>
   <text_id>art1:longtext</text_id>
   <textuser>editor1</textuser>
   <textcontent>This is my summary!</textcontent>
  </text>
                -----
 </articletextlist>
</article>
```

# Input parameters:

\$xmldata XML string holding the content \$sub\_xmldata XML string that will be inserted

"<articletextlist>", "<text\_id>", "art1:longtext");

\$grandtagname XML child tag where the \$sub\_xmldata should be embedded optional: XML tag that encloses the information that must be

\$xmldata = addcontent (\$xmldata, \$sub\_xmldata, "<article>", "<article\_id>", "art1",

of a certain value

\$condvalue optional: Value for the condition

\$parenttagname optional: XML child tag, where \$sub\_xmldata should be

embedded

\$tagname optional: Child tag of the embedded XML string where a value

will be set

\$contentnew optional: Value for the \$tagname

**Output:** 

XML-String Return of the manipulated XML string

# 3.9 Meta Data Generator library

This function library allows you to automatically create keyword lists and a description from a given content. This can be used to automatically generate and fill in metadata for pages. Also meta data from multimedia files can be extracted and stored in the container of an object.

# 3.9.1 getkeywords

### Syntax:

getkeywords (\$text, \$language, \$charset)

### **Description:**

The function requires the text content to be passed as input. All keywords are determined from the text and returned as a keyword list.

### Example:

\$keywords = getkeywords ("This is just a short text.", "en", "UTF-8");

### Input parameters:

\$text Content als String

\$language optional: Language [en, de], default is "en" optional: Character set, default is "UTF-8"

### Output:

Keywords Comma seperated list of keywords

False An error occured

# 3.9.2 getdescription

# Syntax:

getdescription (\$text, \$charset)

# **Description:**

The function requires the text content to be passed as input. A brief description from the given text will be extracted and returned.

#### Example:

\$keywords = getdescription ("This is just a short text.", "UTF-8");

### Input parameters:

\$text Content as string

\$charset optional: Character set, default is "UTF-8"

### Output:

Keywords Short description of the content

# 3.9.3 injectmetadata

### Syntax:

injectmetadata (\$site, \$location, \$object, \$mediafile, \$mapping, \$user)

# **Description:**

The function requires the path to the object and, optionally, the filename of the object or the multimedia file, and a mapping in order to save the meta data. The content from the meta data will be saved in the in the appropriate text ID of the container of the object, based on the given mapping.

WARNING: Existing data of the container will be overwritten!

```
Example:
```

```
// Mapping Definition (Meta Data Name -> Text-ID)
// Dublin Core
$mapping['dc: title'] = "Title";
$mapping['dc: subject'] = "Keywords";
$mapping['dc: description'] = "Description";
$mapping['dc: creator'] = "Creator";
$mapping['dc: rights'] = "Copyright";
// Adobe PhotoShop
$mapping['photoshop: SupplementalCategories'] = "Categories";
// Image Resolution defines Quality [Print, Web]
$mapping['hcms: quality'] = "Quality";
$result = injectmetadata ("Publication", "%comp%/test/", "image.jpg", "", $mapping, "Miller");
```

#### Input parameters:

\$site Name of the publication

\$location Absolute path to the object (Location of the object)
\$object optional: Name of the object (multimedia object file)

\$mediafile or optional: Name of the multimedia file \$mapping Mapping array (Meta Data Name -> Text-ID)

\$user User name

### Output:

True Meta data has been saved successfully

# 3.10 Notifications library

This function library sends automated messages to a user based on limits of a certain value of a particular field.

The user receives a pre-formatted message with information (links) to all objects that are within the search area (date upper and lower limit).

### 3.10.1 licensenotification

### Syntax:

licensenotification (\$site, \$cat, \$folderpath, \$text\_id, \$date\_begin, \$date\_end, \$user)

### **Description:**

The function returns all objects due to the specified search range (location and date limits) and sends an e-mail to a specific user with links to all the affected objects.

### Example:

```
// set language for mail message
$lang = "en";
```

```
// send mail to Miller
```

\$result = licensenotification ("Demo-DAM", "%comp%/images/", "comp", "valid\_date",
"2012-09-01", "2012-09-30", "Miller");

# Input parameters:

\$site Name of the publication

\$cat Object category [page, comp]

\$folderpath Location for the defintion of the search area \$text\_id Text ID of the XML node that need to be analyzed

\$date\_begin Start date for the seach (YYYY-MM-DD) \$date\_end End date for the seach (YYYY-MM-DD)

\$user User name

### Output:

True Mail wurdwas send successfully

# 4 Components and applications

If applications are integrated into components and variables need to be passed from a page to a component, you need to pay attention to the following:

The components must be integrated via the file system (not via HTTP).

All variables to be passed to the component need to be defined in the component as global.

### Example:

A page passes a variable to a component.

Code example of a page:

```
<html>
<head>
<title>page</title>
<head>
<body>
<php $test="This is just a test!"; ?>
[hyperCMS:components id='component']
</body>
</html>
```

The code of the component must be as followed:

```
<?php</p>
global $test;
echo $test;
```

In the example, the variable \$test and its value "This is just a test!" will be passed to the component and will be displayed in the presentation of the component.

# 5 Database Connectivity

The Database Connectivity of the hyper Content Management Server allows the connection of different databases for the storage and retrieval of content. Relational databases are widely used as an external content repository.

For this purpose, a corresponding hyperCMS tag for the Database Connectivity need to be present in each template, which then refers to a DB-Connect file.

In this file functions are stored that hyperCMS will call, provided that the template points to the function file.

The contents are read from the database and will be displayed to the editor. If the editor modifies the content, it will be written to the database again. For read and write access different databases can be accessed as well. The functions in the DB Connect File offer only the shell or standardized interface to hyperCMS that needs to be filled by the programmer.

The subject of database integration is complex and need to be treated individual, since existing databases and their information must be integrated. hyperCMS does not provide any ER model or commits itself to specific database vendors. In general it can be said that all the possibilities of PHP can be exploited in order to connect to various data sources.

Besides the necessary parameters for queries to relational databases, the entire content conatiner is passed as an XML string. This allows documents or content from the content repository to be stored as a node in XML databases as well.

You therfore decide from which sources you read and save data. With PHP you have a powerful language that gives you access to all major databases.

More information regarding the functions of PHP can be found here: http://www.php.net

# 5.1 Creating a Database Connectivity

If you want to create a Database Connectivity, you need to make a copy of the the file "db\_connect\_default.php". This file can be found in the root directory for storing the management data under the following path: /data /db\_connect/
The copy of the file should be named according to the database you want to connect with.

Open the file and gain insight into the functions. In the source code you will also find a description of the functions and parameters passed as well as the output parameters.

The following example will show a read access to a MySQL database in order to extract a text based content. We assume that in a table "TextContent" the content will be presented by the primary key "container\_id" and "text\_id" as well as the text content "text" itself and the text-type "type". The user and the article ID is not stored separately, this is also not necessary for the uniqueness of the content, because the ID of the content container as well as the ID of the element already provides the primary key.

```
// ============== db connect ================================
// this file allows you to access a database using the full PHP functionality.
// you can read or write data from or into a database:
// the following parameter values are passed to each function for
// retrieving data from the database:
// name of the site: $site [string]
// name of the content container: $container_id [string] (is unique
// inside hyperCMS over all sites)
// content container: $container_content [XML-string]
// identification name: $id [string]
// ------ text ------
// if content is text
function db_read_text ($site, $content_id, $container_content, $id, $art_id, $user)
  // input variables: $id [string], optional: $artid [string], $user [string]
   // return value: $text [array]
                   the array must exactly look like this:
  //
                  $text[text], optional: $text[type]
constraints/accepted values for article type, see note below
  //
   // note: special characters in $text are escaped into
   // their html/xml equivalents.
               you can decide between unformatted, formatted and
   //
             optional text using $type:
   //
           unformatted text: $text[type] = textu
   //
   //
               formatted text: $text[type] = textf
   //
               text option: $text[type] = textl
   //-----
   $user = "username";
   $password = "password";
   $database = "database";
   // connect to database
   mysql_connect ("localhost", $user, $password);
   @mysql_select_db ($database) or die ("Unable to select database");
   // fire SQL-query
   $result = mysql_query ("SELECT Text, Type FROM TextContent WHERE
                 container_id=$container_id AND text_id=$id);
   // count returned rows, must be 1 if unique
   $num_of_rows = mysql_num_rows ($result);
   // get the result into an array namend $row
   if (\sum_{i=1}^{n} 
       $row = mysql_fetch_row ($result);
       // set values
       \text{stext[text]} = \text{srow[0]};
       \text{text[type]} = \text{row[1]};
   else $text = false;
   // close connection
   mysql_close ();
   // return result
  return $text;
```

# 6 Event System

The hyper Content & Digital Asset Management Server provides an event system that allows automated execution of actions when events in the system will be executed. This can be used, for example, to automate manual processes.

Events are usually started by the user by selecting an action, e.g. publishing a page. If he corresponding event is enabled, the event "onpublishobject" will be called after successful execution of the publication process of the page. The functions defined therein will therfore be executed.

The events of the event system can be defined in the "hypercms\_eventsys.inc.php" file. This file is located in the internal repository in the folder "data/event system". In this file there are also other important instructions that must be followed during the execution of events.

The event system is valid within the management system for all publications. The system is part of the hyperCMS API and is thus performed on each invocation of the API functions.

Events can be activated and deactivated, so that the use of its defined events can be easily controlled in the "hypercms\_eventsys.inc.php" file.

There is a distinction between PRE and POST events. The PRE event will be fired before the actual execution of the called action, while the POST event is called after the successful execution of the action.

### Example:

When publishing an object the page "index.php" located at the same position should be automatically published as well, since the page "index.php" is used to generate an overview using a hyperCMS script all objects of the same folder.

# 7 hyperCMS API Function Reference

The documentation of all API functions in the current version is also available on our website hypercms.com. You can view the documentation in its current version directly in the browser. Click on the ?-Icon in the template editor to access the help with all hyperCMS tags and API functions.

# 7.1 Main API Functions

### 7.1.1 correctnumber

### **Syntax**

correctnumber (\$number)

# Input parameters

\$number ... formated number

# global input parameters

\$mgmt\_config

### Output

correct mathematical number / false on error

### 7.1.2 cleancontent

# **Syntax**

cleancontent (\$text, \$charset="UTF-8")

# Input parameters

\$text ... text as string or array \$charset ... character set (optional)

### global input parameters

\$mgmt\_config

# Output

cleaned text / false on error

### Description

Removes all HTML tags, scripts and other special characters from the content in order to creaet a plain text

### 7.1.3 remove\_utf8\_bom

# Syntax

remove\_utf8\_bom (\$text)

# Input parameters

\$text ... text as string

# Output

cleaned text / false on error

# Description

Remove UTF-8 BOM sequences

### 7.1.4 convertchars

### **Syntax**

convertchars (\$expression, \$charset\_from="UTF-8", \$charset\_to="UTF-8")

### Input parameters

\$expression ... expression as string or array
\$charset\_from ... input character set (optional)
\$charset\_to ... output character set (optional)

### global input parameters

\$mgmt\_config

### **Output**

converted expression / original expression on error

# 7.1.5 specialchr

# **Syntax**

specialchr (\$expression, \$accept="")

### Input parameters

\$expression ... expression \$accept ... list of characters to be excluded from search (optional)

### **Output**

true/false

### **Description**

Tests if an expression includes special characters (true) or does not (false). Allows you to accept characters through including it into \$accept (e.g. #\$...)

# 7.1.6 specialchr\_encode

### **Syntax**

specialchr\_encode (\$expression, \$remove="no")

### Input parameters

\$expression ... expression \$remove ... remove all special characters [yes, no]

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### **Output**

expression without special characters (for file names)

### **Description**

Renames all special characters for file names to an expression according to given rules

# 7.1.7 specialchr\_decode

#### **Syntax**

specialchr\_decode (\$expression)

### Input parameters

\$expression ... expression

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

# **Output**

expression with special characters (for file names) / false

# Description

This is the decode function for function specialchr\_encode

# 7.1.8 object\_exists

### **Syntax**

object\_exists (\$path)

### Input parameters

\$path ... path to an object

### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### Output

true / false

### **Description**

This function verifies if an object exists already.

# 7.1.9 is\_utf8

### **Syntax**

is\_utf8 (\$str)

### Input parameters

\$str ... expression

# Output

if string is utf-8 encoded true / false otherwise

# Description

This function is an alternative to mb\_check\_encoding (which requires an extra PHP module). It is not failsave!

# 7.1.10 is\_latin1

### **Syntax**

is\_latin1 (\$str)

# Input parameters

\$str ... expression

### Output

if string is latin 1 encoded true / false otherwise

### Description

This function is an alternative to mb\_check\_encoding (which requires an extra PHP module). It is not failsave!

# 7.1.11 makestring

# **Syntax**

makestring (\$array)

# Input parameters

\$array ... (multidimensional) array

### Output

string including all array values / false on error

# 7.1.12 splitstring

### **Syntax**

splitstring (\$string)

# Input parameters

\$string ... string with ";" or ", " as seperator

### Output

array with string splitted into array / false on error

# 7.1.13 is\_emptyfolder

# Syntax

is\_emptyfolder (\$dir)

# Input parameters

\$dir ... path to folder

# global input parameters

\$mgmt\_config

# Output

true / false

# **Description**

Checks if a directory/folder is empty (has no published objects or other files)

# 7.1.14 is\_supported

### **Syntax**

is\_supported (\$preview\_array, \$file)

### Input parameters

\$preview\_array ... preview array holding the supported file extensions as key and references to executables as value

\$file ... file name or file extension

# Output

true / false

### **Description**

This function determines if a certain file type by its file extension is supported by the systems media conversion

# 7.1.15 is\_cloudstorage

### **Syntax**

is\_cloudstorage (\$site="")

### Input parameters

\$site ... publication name (optional)

# global input parameters

\$mgmt\_config

### Output

true / false

### **Description**

This function determines if a cloud storage has been defined in the main configuration or for a specific publication

# 7.1.16 is\_cloudobject

### **Syntax**

is\_cloudobject (\$file)

### Input parameters

\$file ... path to media file or media file name

# global input parameters

\$mgmt\_config

# Output

true / false

# Description

This functions verifies if an object/file is available in the cloud storage

# 7.1.17 is\_date

# **Syntax**

is\_date (\$date, \$format="Y-m-d")

# Input parameters

\$date ... date as string \$format ... date format (optional)

### Output

true / false

# Description

This function determines if a string represents a valid date format

# 7.1.18 is\_tempfile

### **Syntax**

is\_tempfile (\$path)

### Input parameters

\$path ... file name or path [string]

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

# Output

if file is a temp file true / false on error

### **Description**

This functions checks if the provided file name is a temporary file

# 7.1.19 is\_thumbnail

### **Syntax**

is\_thumbnail (\$media, \$images\_only=true)

### Input parameters

\$media ... file name or path [string]

\$images\_only ... only thumbnail images should be considered as thumbnail [true, false]

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### Output

if file is a thumbnail file true / false on error

### **Description**

This functions checks if the provided file name is a thumbnail file

# 7.1.20 is\_config

#### Syntax

is\_config (\$media)

# Input parameters

\$media ... file name or path [string]

### global input parameters

\$user \$mgmt\_config \$hcms\_lang \$lang

### Output

if file is a config file true / false if not

# Description

This functions checks if the provided file name is a config file

# 7.1.21 is\_encryptedfile

# **Syntax**

is\_encryptedfile (\$location, \$file)

# Input parameters

\$location ... path to file [string] \$file ... file name [string]

### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### Output

true / false

### **Description**

This functions checks if the provided file is encrypted

# 7.1.22 is\_document

### **Syntax**

is\_document (\$file)

# Input parameters

\$file ... file name or file extension

# global input parameters

\$mgmt\_config \$hcms\_ext

# Output

true / false

# Description

This function determines if a certain file is a document (binary and text based)

# 7.1.23 is\_image

# **Syntax**

is\_image (\$file)

# Input parameters

\$file ... file name or file extension

# global input parameters

\$mgmt\_config \$hcms\_ext

# Output

true / false

# Description

This function determines if a certain file is an image

7.1.24 is\_rawimage

# **Syntax**

is\_rawimage (\$file)

# Input parameters

\$file ... file name or file extension

### global input parameters

\$mgmt\_config \$hcms\_ext

# **Output**

true / false

# Description

This function determines if a certain file is a raw image

7.1.25 is\_aiimage

### **Syntax**

is\_aiimage (\$file)

### Input parameters

\$file ... file name or file extension

# Output

true / false

# Description

This function determines if a certain file is a vector-based Adobe Illustrator (AI) or AI-compatible EPS file

7.1.26 is\_video

# **Syntax**

is\_video (\$file)

# Input parameters

\$file ... file name or file extension

# global input parameters

\$mgmt\_config \$hcms\_ext

# Output

true / false

# Description

This function determines if a certain file is a video

7.1.27 is\_audio

# **Syntax**

is\_audio (\$file)

### Input parameters

\$file ... file name or file extension

# global input parameters

\$mgmt\_config
\$hcms\_ext

### Output

true / false

### **Description**

This function determines if a certain file is an audio file

# 7.1.28 is\_mobilebrowser

# **Syntax**

is\_mobilebrowser ()

# Input parameters

# global input parameters

\$user

\$mgmt\_config

# Output

true / false

### **Description**

Detects mobile browsers (smartphones and tablets)

7.1.29 is\_iOS

# **Syntax**

is\_iOS ()

# Input parameters

# global input parameters

\$user

\$mgmt\_config

# Output

true / false

# Description

Detects if a mobile browser is an iPhone, iPad or IPod

# 7.1.30 copyrecursive

# **Syntax**

copyrecursive (\$src, \$dst)

# Input parameters

\$src ... source directory

\$dst ... destination directory

# **Output**

true/false

# Description

This function copyies all directories and files from source to destination directory

# 7.1.31 array\_iunique

# **Syntax**

array\_iunique (\$array)

### Input parameters

\$array ... array

# Output

unique array / false

### **Description**

This function is the case-insensitive form of PHPs array\_unique function

# 7.1.32 in\_array\_substr

### **Syntax**

in\_array\_substr (\$search, \$array)

### Input parameters

\$search ... search expression \$array ... array

# Output

true / false

# Description

This function is supporting the search of substrings in the array values compared to PHPs in\_array function

# 7.1.33 createfilename

# **Syntax**

createfilename (\$filename)

# Input parameters

\$filename ... path to file or directory

# global input parameters

\$mgmt\_config \$hcms\_lang \$lang

#### Output

new filename/false

#### **Description**

Create an valid file name without special characters that does not exceed the maximum file name length

# 7.1.34 correctfile

# **Syntax**

correctfile (\$abs\_path, \$filename, \$user="")

## Input parameters

\$abs\_path ... path to file or directory \$filename ... file or directory name \$user ... user name

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

correct filename/false

# 7.1.35 correctpath

# **Syntax**

correctpath (\$path, \$slash="/")

# Input parameters

\$path ... path to folder
\$slash ... directory seperator (optional)

## Output

correct path/false

# 7.1.36 convertpath

# **Syntax**

convertpath (\$site, \$path, \$cat="")

# Input parameters

\$site ... publication\$path ... content management path to folder or object\$cat ... object category ['page

## global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

converted path or URL / false on error

#### **Description**

This function replaces object pathes of the content management config with %page% and %comp% path variables

## 7.1.37 convertlink

## **Syntax**

convertlink (\$site, \$path, \$cat)

## Input parameters

\$site ... publication

\$path ... publication management path to folder or object

\$cat ... object category ['page

#### global input parameters

\$user \$mgmt\_config \$publ\_config \$hcms\_lang \$lang

# Output

converted path or URL / false on error

### **Description**

This function replaces pathes of the publication management config with %page% and %comp% path variables.

# 7.1.38 deconvertpath

# **Syntax**

deconvertpath (\$objectpath, \$type="file", \$specialchr\_transform=true)

# Input parameters

\$objectpath ... string including path to folder or object \$type ... convert to file system path or URL [file \$specialchr\_transform ... url] (optional)

#### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### **Output**

deconverted path/false

#### **Description**

This function replaces all %page% and %comp% path variables with the path of the content management config.

It converts the path only on content management side not for the publication target. It optionally transform special characters as well.

BE AWARE: The input path must not provide template data since valid\_publicationname mightreturn false.

## 7.1.39 deconvertlink

# Syntax

deconvertlink (\$path, \$type="url")

## Input parameters

\$path ... path to folder or object

\$type ... convert to file system path or URL [file

# global input parameters

\$user

\$mgmt\_config
\$publ\_config
\$hcms\_lang
\$lang

## Output

converted absolute link without host/false

#### Description

This function deconverts the path only for the publication target.

It should be used for page linking, otherwise the function will return the absolute link including the host for component links.

#### 7.1.40 createviewlink

## **Syntax**

createviewlink (\$site, \$mediafile, \$name="", \$force\_reload=false, \$type="wrapper")

# Input parameters

```
$site ... publication
$mediafile ... media file name
$name ... media name (optional)
$force_reload ... force reload [true, false] (optional)
$type ... link type [wrapper, download] (optional)
```

# global input parameters

\$user

\$mgmt\_config

#### Output

URL for download of the multimedia file / false on error

## **Description**

The view link is mainly used inside the system in order to reference and load a multimedia file.

The database is not required since the object hash or ID is not needed to create the view link.

## 7.1.41 createaccesslink

# **Syntax**

```
createaccesslink ($site, $location="", $object="", $cat="", $object_id="", $login, $type="al",
$lifetime=0, $formats="")
```

# Input parameters

```
$site ... publication

$location ... location (optional)

$object ... object (optional)

$cat ... category [page, comp] (optional)

$object_id ... object-ID (optional)

$login ... user login

$type ... link type [al, dl] (optional)

$lifetime ... token lifetime in seconds (optional)

$formats ... formats (optional)
```

## global input parameters

\$user \$mgmt\_config \$hcms\_lang

# \$lang

### Output

URL for access to given object / false on error

# 7.1.42 createobjectaccesslink

# **Syntax**

```
createobjectaccesslink ($site="", $location="", $object="", $cat="", $object_id="",
$container_id="")
```

## Input parameters

```
$site ... publication (optional)
$location ... location (optional)
$object ... object (optional)
$cat ... category [page, comp] (optional)
$object_id ... object ID (optional)
$container_id ... container-ID (optional)
```

### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### **Output**

URL for download of the multimedia file of the given object or folder / false on error

# 7.1.43 createwrapperlink

# **Syntax**

```
createwrapperlink ($site="", $location="", $object="", $cat="", $object_id="", $container_id="")
```

#### Input parameters

```
$site ... publication (optional)
$location ... location (optional)
$object ... object (optional)
$cat ... category [page, comp] (optional)
$object_id ... object ID (optional)
$container_id ... container-ID (optional)
```

### global input parameters

```
$user
$mgmt_config
$hcms_lang
$lang
```

#### Output

URL for download of the multimedia file of the given object or folder / false on error

# Description

In order to track and include external user IDs in the daily statistics you need to manually add the 'user' parameter to the link in the form of: &user=[user-ID]

## 7.1.44 createdownloadlink

### **Syntax**

```
createdownloadlink ($site="", $location="", $object="", $cat="", $object_id="",
$container_id="")
```

## Input parameters

\$site ... publication name (optional)
\$location ... location (optional)
\$object ... object (optional)
\$cat ... category [page, comp] (optional)
\$object\_id ... object ID (optional)
\$container\_id ... container-ID (optional)

### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

URL for download of the multimedia file of the given object or folder / false on error

#### **Description**

In order to track and include external user IDs in the daily statistics you need to manually add the 'user' parameter to the link in the form of: &user=[user-ID]

### 7.1.45 createmultidownloadlink

### **Syntax**

createmultidownloadlink (\$site, \$multiobject="", \$media="", \$location="", \$name="", \$user, \$type="", \$mediacfg="", \$linktype="download")

# Input parameters

\$site ... publication name
\$multiobject ... multiobject string (optional)
\$media ... media file name (optional)
\$location ... location (optional)
\$name ... presentation name (optional)
\$user ... user name
\$type ... conversion type (format
\$mediacfg ... e.g. jpg)
\$linktype ... media configuration used for conversion (e.g.: 1024x768px)

# global input parameters

\$mgmt\_config \$mgmt\_compress \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$globalpermission \$setlocalpermission \$hcms\_lang \$lang

### **Output**

download link / false on error

## **Description**

Generates a download link of a single media file, folder or multi objects.

Priority if multiple input parameters for media file, folder or multi objects are given:

1st...multi objects

2nd...media file

3rd...folder

# 7.1.46 cleandomain

# **Syntax**

cleandomain (\$path)

# Input parameters

\$path ... string to clean from http(s)://domain

# global input parameters

\$mgmt\_config \$hcms\_lang \$lang

### Output

cleanded string / false on error

#### **Description**

Returns the URL notation without the protocoll://domain.

# 7.1.47 fileversion

## **Syntax**

fileversion (\$file)

# Input parameters

\$file ... file name [string]

#### Output

versioned file name [string] / false on error

## Description

Creates a version file name

## 7.1.48 createversion

#### **Syntax**

createversion (\$site, \$file, \$user="sys")

## Input parameters

\$site ... publication name

\$file ... media file name or container name

\$user ... user name (optional)

# global input parameters

\$mgmt\_config
\$mgmt\_mediaoptions
\$mgmt\_docoptions
\$hcms\_ext
\$user

## Output

true / false

# Description

Creates a new version of a multimedia file and container

# 7.1.49 rollbackversion

## **Syntax**

rollbackversion (\$site, \$location, \$page, \$container\_version, \$user="sys")

# Input parameters

\$site ... publication name
\$location ... location
\$page ... object name
\$container\_version ... container version name
\$user ... user name (optional)

# global input parameters

\$mgmt\_config
\$mgmt\_mediaoptions
\$mgmt\_docoptions
\$hcms\_ext
\$hcms\_lang
\$lang

## Output

result\_array

# **Description**

Makes an older object version to the current version

### 7.1.50 deleteversion

#### **Syntax**

deleteversion (\$site, \$container\_version, \$user="sys")

#### Input parameters

\$site ... publication name \$container\_version ... location \$user ... object name

# global input parameters

\$mgmt\_config

### **Output**

true / false

## **Description**

Removes the version of an object

## 7.1.51 deleteversions

## **Syntax**

deleteversions (\$type, \$report, \$user="sys")

## Input parameters

\$type ... type [content, template] or valid path in filesystem
\$report ... report [yes, no]
\$user ... user name (optional)

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### Output

true [report=no] or report [report=yes]
false on error

# Description

Removes all versions of all objects or templates

# 7.1.52 loadfile\_header

# **Syntax**

loadfile\_header (\$abs\_path, \$filename)

## Input parameters

\$abs\_path ... path to file \$filename ... file name

# global input parameters

\$user \$mgmt\_config \$hcms\_lang \$lang

## Output

file content

# Description

Loads the file header, represented by a defined header size.

# 7.1.53 loadfile\_fast

# **Syntax**

loadfile\_fast (\$abs\_path, \$filename)

# Input parameters

\$abs\_path ... path to file \$filename ... file name

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

# Output

file content

## Description

This functions is identical to loadfile, but it does not wait for locked files to be unlocked again. It should only be used on files that won't be locked by the system. It is therefore recommended to use loadfile.

# 7.1.54 loadfile

## **Syntax**

loadfile (\$abs\_path, \$filename)

## Input parameters

\$abs\_path ... path to file \$filename ... file name

#### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

## Output

file content

## **Description**

This function loads a file and waits up to 3 seconds for locked files to be unlocked

## 7.1.55 loadlockfile

## **Syntax**

loadlockfile (\$user, \$abs\_path, \$filename, \$force\_unlock=3)

## Input parameters

\$user ... user
\$abs\_path ... path to file
\$filename ... file name
\$force\_unlock ... force unlock of file after x seconds [integer]

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

## Output

file content

#### Description

This function loads and locks a file for a sepecific user. It waits up to 3 seconds for locked files to be unlocked.

Function loadlockfile and savelockfile includes a locking mechanismen for files.

Every time you want to lock a file during your operations use loadlockfile.

It is important to use savelockfile to save and unlock the file again.

savelockfile requires the file to be opened by loadlockfile before.

#### 7.1.56 savefile

## **Syntax**

savefile (\$abs\_path, \$filename, \$filedata)

# Input parameters

\$abs\_path ... path to file \$filename ... file name \$filedata ... file content

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### Output

true/false

## **Description**

This function saves content to a file

## 7.1.57 savelockfile

# **Syntax**

savelockfile (\$user, \$abs\_path, \$filename, \$filedata)

# Input parameters

\$user ... user \$abs\_path ... path to file \$filename ... file name \$filedata ... file content

# global input parameters

\$mgmt\_config \$hcms\_lang \$lang

## Output

true/false

# Description

Saves content to a locked file. It requires the file to be opened by loadlockfile. Function loadlockfile and savelockfile includes a locking mechanismen for files. Every time you want to lock a file during your operations use loadlockfile. It is important to use savelockfile to save and unlock the file again. savelockfile requires the file to be opened by loadlockfile before.

# 7.1.58 appendfile

### **Syntax**

appendfile (\$abs\_path, \$filename, \$filedata)

# Input parameters

\$abs\_path ... path to file \$filename ... file name \$filedata ... file content

## global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

true/false

#### **Description**

Appends data to a file but cannot create a new file! Waits up to 3 seconds for locked files to be unlocked again. Files won't be unlocked if the file is already locked.

# 7.1.59 lockfile

## **Syntax**

lockfile (\$user, \$abs\_path, \$filename)

# Input parameters

\$user ... user \$abs\_path ... path to file \$filename ... file name

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

## Output

true/false

# Description

This functions lockes a file for a specific user

## 7.1.60 unlockfile

## **Syntax**

unlockfile (\$user, \$abs\_path, \$filename)

# Input parameters

\$user ... user \$abs\_path ... path to file \$filename ... file name

## global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

true/false

#### **Description**

This functions unlockes a file for a specific user

# 7.1.61 deletefile

# **Syntax**

deletefile (\$abs\_path, \$filename, \$recursive=false)

# Input parameters

\$abs path ... path to file

\$filename ... file or directory name

\$recursive ... delete all files in directory recursively including symbolic links [true, false]

# global input parameters

\$user

\$mgmt\_config
\$hcms\_lang
\$lang

## **Output**

true/false

### **Description**

Deletes a file or directory. If parameter recursive is et to true all items of a directory will be removed as well.

#### 7.1.62 restoremediafile

## **Syntax**

restoremediafile (\$site, \$mediafile)

## Input parameters

\$site ... publication name \$mediafile ... media file name

# global input parameters

\$mgmt\_config

#### **Output**

result array

# **Description**

Moves an exported media file back to the media repository

# 7.1.63 preparemediafile

#### **Syntax**

preparemediafile (\$site, \$medialocation, \$mediafile, \$user="")

#### Input parameters

\$site ... publication name \$medialocation ... media file location \$mediafile ... media file name \$user ... user name (optional)

# global input parameters

\$mgmt\_config

#### **Output**

result array / false on error

## Description

Prepares a media file for use in the system (load from cloud, decrypt content)

# 7.1.64 deletemediafiles

## **Syntax**

deletemediafiles (\$site, \$mediafile, \$delete\_original=false)

# Input parameters

\$site ... publication name\$mediafile ... mediafile name\$delete\_original ... delete original media file [true, false] (optional)

# global input parameters

\$user
\$mgmt\_config
\$mgmt\_mediaoptions
\$mgmt\_docoptions
\$hcms\_ext
\$hcms\_lang
\$lang

## Output

true/false

# **Description**

Deletes all derivates (thumbnails, config files, converted versions of the file) of a specific media file resource. Deletes the original media file optionally .

## 7.1.65 avoidfilecollision

# **Syntax**

avoidfilecollision (\$data="tempdata", \$force=false)

# Input parameters

\$data ... data string (optional) \$force ... force execution [true, false]

# global input parameters

\$mgmt\_config \$site

### **Output**

true / false on error

## **Description**

Appending data to a file ensures that the previous write process is finished (required due to issue when editing encrypted files)

# 7.1.66 substr\_in\_array

# **Syntax**

substr\_in\_array (\$search, \$array)

### Input parameters

\$search ... search-string \$array ... array

# Output

array with found values / false

# Description

Searches for substring in array

# 7.1.67 downloadobject

# **Syntax**

downloadobject (\$location, \$object, \$container="", \$lang="en", \$user="")

## Input parameters

\$location ... location \$object ... object name \$container ... content container \$lang ... language (optional) \$user ... user name (optional)

# global input parameters

\$mgmt\_config \$eventsystem \$hcms\_lang \$lang

#### Output

stream of file content / false on error

#### Description

This functions provides an object via http for viewing, not suitable for multimedia objects!

## 7.1.68 downloadfile

## **Syntax**

downloadfile (\$filepath, \$name, \$force="wrapper", \$user="")

# Input parameters

\$filepath ... path to file [string]

\$name ... file name to show for download via http

\$force ... force file wrapper or download or no file headers for WebDAV [download, wrapper, noheader]

\$user ... user name (optional)

#### global input parameters

\$mgmt\_config \$eventsystem \$hcms\_lang \$lang \$is\_iphone

## Output

stream of file content / false on error

# Description

This functions provides a file via http for view or download

## 7.1.69 loadcontainer

## **Syntax**

loadcontainer (\$container, \$type="work", \$user)

#### Input parameters

\$container ... container file name or container id (working container will be loaded by default)
\$type ... optional container type [published
\$user ... work

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

# Output

XML content of container / false on error

## Description

This functions loads a content container

## 7.1.70 savecontainer

# **Syntax**

savecontainer (\$container, \$type="work", \$data, \$user, \$init=false)

#### Input parameters

\$container ... container file name or container id (working container will be loaded by default)

\$type ... optional container type [published, work, version]

\$data ... container content

\$user ... user

\$init ... save container initally [true, false] (optional)

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

#### **Output**

true / false on error

### Description

Saves data into existing content container by default. Only if \$init is set to true it will initally save a non existing container.

#### 7.1.71 checkworkflow

# **Syntax**

checkworkflow (\$site, \$location, \$page, \$cat="", \$contentfile="", \$contentdata="", \$buildview="cmsview", \$viewstore="", \$user)

# Input parameters

\$site ... publication name [string]
\$location ... location [string]
\$page ... object name [string]
\$cat ... category [page, comp] (optional)
\$contentfile ... container name [string] (optional)
\$contentdata ... container [XML string] (optional)
\$buildview ... view name [string] (optional)
\$viewstore ... view store [string] (optional)
\$user ... user name [string]

## global input parameters

\$mgmt\_config

#### **Output**

result array

# Description

Help function for function buildview to evaluate the workflow of an object and return the manipulated view store, view name, workflow ID, workflow role and the encrypted workflow token.

# 7.1.72 inherit\_db\_load

# **Syntax**

inherit\_db\_load (\$user)

# Input parameters

\$user ... nothing

# global input parameters

\$siteaccess \$mgmt\_config \$hcms\_lang \$lang

# Output

inheritance database [2 dim. array]/false

# Description

This function loads and locks the inheritance database.

Each record of the inherit management database has the following design:

xml-content container : | absolute path to 1-n objects : | 1-m inherits used by 1-n objects Important: The inherit management database needs to be saved or closed after loading it

# 7.1.73 inherit\_db\_read

## **Syntax**

inherit\_db\_read ()

## Input parameters

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

inheritance database [2 dim. array]/false

# Description

This function loads the inheritance database for reading

# 7.1.74 inherit\_db\_close

# **Syntax**

inherit\_db\_close (\$user)

# Input parameters

\$user ... %

# global input parameters

\$mgmt\_config \$hcms\_lang \$lang

## Output

true/false

# Description

Closes and unlocks the inheritance management database

7.1.75 inherit\_db\_save

# **Syntax**

inherit\_db\_save (\$inherit\_db, \$user)

# Input parameters

\$inherit\_db ... inherit database array \$user

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

true/false

# **Description**

This function saves und unlocks the inheritance management database

7.1.76 inherit\_db\_getparent

### **Syntax**

inherit\_db\_getparent (\$inherit\_db, \$child)

## Input parameters

\$inherit\_db ... inherit database [2 dim. array] \$child ... child [string]

# Output

all parents of given child [1 dim. array] / false

7.1.77 inherit\_db\_getchild

#### **Syntax**

inherit\_db\_getchild (\$inherit\_db, \$parent)

#### Input parameters

\$inherit\_db ... parent [string] \$parent

## Output

all childs of given parent [1 dim. array] / false

7.1.78 inherit\_db\_setparent

### **Syntax**

inherit\_db\_setparent (\$inherit\_db, \$child, \$parent\_array)

#### Input parameters

\$inherit\_db ... inherit database [2 dim. array] \$child ... child [string] \$parent\_array ... parents [Array]

# Output

inherit database [2 dim. array]

## **Description**

This function updates and insert all references from a child an its parents

# 7.1.79 inherit\_db\_insertparent

# **Syntax**

inherit\_db\_insertparent (\$inherit\_db, \$parent, \$child\_array)

## Input parameters

\$inherit\_db ... inherit database [2 dim. array]
\$parent ... parent [string]
\$child\_array ... childs [Array]

#### Output

inherit database [2 dim. array]

# 7.1.80 inherit\_db\_deleteparent

#### **Syntax**

inherit\_db\_deleteparent (\$inherit\_db, \$parent)

# Input parameters

\$inherit\_db ... inherit database [2 dim. array] \$parent ... parent [string]

## **Output**

inherit database [2 dim. array]

# 7.1.81 createinstance

## **Syntax**

createinstance (\$instance\_name, \$settings, \$user="sys")

## Input parameters

\$instance\_name ... instance name \$settings ... settings array \$user ... user name

# global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

#### **Output**

result array

# **Description**

This function creates a new instance with all its files and the mySQL database

## 7.1.82 editinstance

## **Syntax**

editinstance (\$instance\_name, \$content, \$user="sys")

# Input parameters

\$instance\_name ... instance name \$content ... content as string \$user ... user name

## global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

result array

## **Description**

This function saves the instance configuration in the config file

## 7.1.83 deleteinstance

# **Syntax**

deleteinstance (\$instance\_name, \$user="sys")

# Input parameters

\$instance\_name ... instance name \$user ... settings array

# global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

## Output

result array

#### **Description**

This function creates a new instance with all its files and the mySQL database

# 7.1.84 createpublication

# **Syntax**

createpublication (\$site\_name, \$user="sys")

# Input parameters

\$site\_name ... publication name \$user ... user name

#### global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

## Output

result array

# Description

This function creates a new publication with all its files

# 7.1.85 editpublication

# **Syntax**

editpublication (\$site\_name, \$setting, \$user="sys")

# Input parameters

\$site\_name ... publication name \$setting ... publication settings array \$user ... user name

# global input parameters

\$eventsystem \$mgmt\_config \$hcms\_lang \$lang

### Output

result array

# Description

This function saves the settings of a publication

# 7.1.86 editpublicationsetting

# **Syntax**

editpublicationsetting (\$site\_name, \$setting, \$value, \$user="sys")

### Input parameters

\$site\_name ... publication name
\$setting ... publication settings name (see publication config file for details)
\$value ... value
\$user ... user name

# global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

### **Output**

true/false

## **Description**

This function can be used to edit a single settings of a publication

# 7.1.87 deletepublication

# **Syntax**

deletepublication (\$site\_name, \$user="sys")

## Input parameters

\$site\_name ... publication name
\$user ... user name

#### global input parameters

\$mgmt\_config
\$eventsystem
\$hcms\_lang
\$lang

## Output

result array

# Description

This function deletes a publication with all its files

# 7.1.88 createpersonalization

# **Syntax**

createpersonalization (\$site, \$pers\_name, \$cat)

# Input parameters

\$site ... publication name
\$pers\_name ... personalization profile or tracking name
\$cat ... category [profile, tracking]

# global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

# Output

result array

## Description

This function creates a new customer personalization tracking or profile

# 7.1.89 deletepersonalization

# **Syntax**

deletepersonalization (\$site, \$pers\_name, \$cat)

# Input parameters

\$site ... publication name
\$pers\_name ... personalization profile or tracking name
\$cat ... category [profile, tracking]

# global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

## Output

result array

## **Description**

This function deletes a customer personalization tracking or profile

# 7.1.90 createtemplate

# **Syntax**

createtemplate (\$site, \$template, \$cat)

## Input parameters

\$site ... publication name
\$template ... template name
\$cat ... category [page, comp, meta, inc]

# global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

#### Output

result array

## Description

This function creates a new template

# 7.1.91 loadtemplate

### **Syntax**

loadtemplate (\$site, \$template)

## Input parameters

\$site ... publication name \$template ... template file name

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

## Output

array (template content [XML string] publication result[true/false]) / false on error

# Description

This function loads templates by given name.

Based on the inheritance settings of the publication the template will be loaded with highest priority from the own publication and if not available from a parent publication. If the parent publications have double entries the sort mechanism will define the priority. First priority have numbers, second are upper case letters and last priority have lower case letters.

# 7.1.92 edittemplate

#### **Syntax**

edittemplate (\$site, \$template, \$cat, \$user, \$content="", \$extension="", \$application="")

## Input parameters

\$site ... publication name

\$template ... template file name \$cat ... category [page, comp, meta, inc] \$user ... template content (optional) \$content ... template extension (optional) \$extension ... temlate application (optional) \$application

## global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

# Output

result array

## **Description**

This function edites a template

# 7.1.93 deletetemplate

#### **Syntax**

deletetemplate (\$site, \$template, \$cat)

### Input parameters

\$site ... publication name\$template ... template file name\$cat ... category [page, comp, meta, inc]

## global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

#### **Output**

result array

#### **Description**

This function deletes a template

## 7.1.94 createuser

## **Syntax**

createuser (\$site, \$login, \$password, \$confirm\_password, \$user="sys")

# Input parameters

\$site ... publication name (optional)
\$login ... login name
\$password ... password
\$confirm\_password ... confirmed password
\$user ... user name

## global input parameters

\$eventsystem
\$mgmt\_config
\$mgmt\_lang\_shortcut\_default

```
$hcms_lang
$lang
```

# Output

array

# **Description**

This function creates a new user

## 7.1.95 edituser

## **Syntax**

```
edituser ($site, $login, $old_password="", $password="", $confirm_password="", $superadmin="0", $realname="", $language="en", $theme="", $email="", $phone="", $signature="", $usergroup="", $usersite="", $user="sys")
```

#### Input parameters

```
$site ... publication name
$login ... login name
$old_password ... new login name
$password ... password
$confirm_password ... confirmed password
$superadmin ... super administrator [0, 1]
$realname ... real name
$language ... language setting [de, en]
$theme ... theme name (optional)
$email ... email
$phone ... phone
$signature ... usergroup string [group1|group2]
$usergroup ... member of site(s) string [site1|site2]]
$usersite ... user name
$user
```

## global input parameters

\$eventsystem \$login\_cat \$group \$mgmt\_config \$hcms\_lang \$lang

# **Output**

array

# **Description**

This function edits a user

#### 7.1.96 deleteuser

# **Syntax**

deleteuser (\$site, \$login, \$user="sys")

## Input parameters

```
$site ... publication where the user should be removed [*Null*] for all publications $login ... login name $user ... user name
```

#### global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

# Output

array

# Description

This function removes a user

# 7.1.97 creategroup

## **Syntax**

creategroup (\$site, \$group\_name, \$user="sys")

# Input parameters

\$site ... publication anem \$group\_name ... group name \$user ... user name

## global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

#### **Output**

array

### **Description**

This function creates a new user group

# 7.1.98 editgroup

## **Syntax**

editgroup (\$site, \$group\_name, \$pageaccess, \$compaccess, \$permission, \$user)

## Input parameters

\$site ... publication name
\$group\_name ... group name
\$pageaccess ... page folder access array
\$compaccess ... component folder access array
\$permission ... permissions array
\$user ... user name

# global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

## Output

array

# Description

This function removes a user group

# 7.1.99 deletegroup

# **Syntax**

deletegroup (\$site, \$group\_name, \$user)

# Input parameters

\$site ... publication name \$group\_name ... group name \$user ... user name

# global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

# Output

array

## **Description**

This function removes a user group

# 7.1.100 renamegroupfolder

## **Syntax**

renamegroupfolder (\$site, \$cat, \$folder\_curr, \$folder\_new, \$user)

# Input parameters

\$site ... publication name \$cat ... cat[page, comp] \$folder\_curr ... old location \$folder\_new ... new location \$user ... user

# global input parameters

\$mgmt\_config \$hcms\_lang \$lang

# Output

true / false on error

# Description

This function renames a workgroup folder

# 7.1.101 deletegroupfolder

# **Syntax**

deletegroupfolder (\$site, \$cat, \$folderpath, \$user)

# Input parameters

\$site ... publication name \$cat ... cat[page, comp] \$folderpath ... path to the folder \$user ... user

# global input parameters

\$mgmt\_config

\$hcms\_lang \$lang

## Output

true / false on error

#### **Description**

This function removes a group folder

## 7.1.102 renameworkflowfolder

# **Syntax**

renameworkflowfolder (\$site, \$cat, \$folder\_curr, \$folder\_new, \$user)

# Input parameters

\$site ... publication name \$cat ... cat[page, comp] \$folder\_curr ... old location \$folder\_new ... new location \$user ... user

## global input parameters

\$mgmt\_config \$hcms\_lang \$lang

### Output

true / false on error

## **Description**

This function renames a workgroup folder

# 7.1.103 deleteworkflowfolder

#### **Syntax**

deleteworkflowfolder (\$site, \$cat, \$folderpath, \$user)

## Input parameters

\$site ... publication name
\$cat ... cat[page, comp]
\$folderpath ... location of folder
\$user ... user

# global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

## Output

true / false on error

## Description

This function removes a workgroup folder

# 7.1.104 createmediacat

# Syntax

createmediacat (\$site, \$mediacat\_name)

## Input parameters

\$site ... publication

\$mediacat\_name ... media category name

## global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

#### Output

Array with onload JS-code and message

## Description

Creates a new media category in the template media index file. Only used for template media.

# 7.1.105 renamemediacat

#### **Syntax**

renamemediacat (\$site, \$mediacat\_name\_curr, \$mediacat\_name)

### Input parameters

\$site ... publication \$mediacat\_name\_curr ... old media category name \$mediacat\_name ... new media category name

## global input parameters

\$user
\$eventsystem
\$mgmt\_config
\$hcms\_lang
\$lang

#### Output

Array with onload JS-code and message

#### Description

Renames a new media category in the template media index file

# 7.1.106 deletemediacat

## **Syntax**

deletemediacat (\$site, \$mediacat\_name)

# Input parameters

\$site ... publication

\$mediacat\_name ... media category name

## global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

# Output

Array with onload JS-code and message

## Description

Deletes a new media category in the template media index file

# 7.1.107 uploadtomediacat

# **Syntax**

uploadtomediacat (\$site, \$mediacat\_name, \$global\_files)

# Input parameters

\$site ... publication \$mediacat\_name ... media category name \$global\_files ... PHP FILES array

## global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

#### **Output**

Array with onload JS-code and message

### **Description**

Uploads a media file into a given template media category

### 7.1.108 deletefrommediacat

#### **Syntax**

deletefrommediacat (\$site, \$mediafile)

#### Input parameters

\$site ... publication \$mediafile ... media file name

# global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

#### Output

Array with onload JS-code and message

## **Description**

Deletes a media file from the template media category index

# 7.1.109 createfolder

# **Syntax**

createfolder (\$site, \$location, \$foldernew, \$user)

## Input parameters

\$site ... publication name

\$location ... location

\$foldernew ... folder name

\$user ... user name

# global input parameters

\$eventsystem

\$mgmt\_config

\$cat

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

### **Output**

result array

# Description

This function creates a new folder. The folder name must not match the temp file patterns defined in include/tempfilepatterns.inc.php

## 7.1.110 createfolders

# **Syntax**

createfolders (\$site, \$location, \$foldernew, \$user)

#### Input parameters

\$site ... publication name

\$location ... location

\$foldernew ... folder name

\$user ... user name

## global input parameters

\$eventsystem

\$mgmt\_config

\$cat

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

# **Output**

array

## **Description**

This function creates all folders recursively

# 7.1.111 collectfolders

#### Syntax

collectfolders (\$site, \$location, \$folder)

## Input parameters

\$site ... publication name \$location ... location

\$folder ... folder name

# global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

## Output

result array / false

# Description

Help function to create the collection of folders

# 7.1.112 copyfolders

# Syntax

copyfolders (\$site, \$location, \$locationnew, \$folder, \$user)

## Input parameters

\$site ... publication name \$location ... location (source) \$locationnew ... new location (destination) \$folder ... folder name \$user ... user name

# global input parameters

\$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

#### Output

result array equal to createfolder

#### Description

This function copies/creates all folders of the source location using mkdir (only directories will be created!). used for pasteobject function.

## 7.1.113 deletefolder

## **Syntax**

deletefolder (\$site, \$location, \$folder, \$user)

#### Input parameters

\$site ... publication name \$location ... location \$folder ... folder name \$user ... user name

## global input parameters

\$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

# Output

array

# Description

This function removes an folder. The folder must be empty in order to be removed from the system.

# 7.1.114 renamefolder

#### **Syntax**

renamefolder (\$site, \$location, \$folder, \$foldernew, \$user)

# Input parameters

\$site ... publication name \$location ... location \$folder ... folder name \$foldernew ... new folder name \$user ... user name

# global input parameters

\$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

# Output

array

## Description

This function renames a folder

## 7.1.115 correct container name

## **Syntax**

correctcontainername (\$container\_id)

#### Input parameters

\$container\_id ... container ID

#### Output

corrected name / false on error

## Description

This function adds zeros to the container ID to create the correct file name of the content container.

# 7.1.116 createobject

# **Syntax**

createobject (\$site, \$location, \$page, \$template, \$user)

## Input parameters

\$site ... publication name \$location ... location \$page ... object \$template ... template name \$user

### global input parameters

\$eventsystem \$mgmt\_config \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

# Output

result array

#### Description

This function creates a new page or component

# 7.1.117 uploadfile

# **Syntax**

uploadfile (\$site, \$location, \$cat, \$global\_files, \$page="", \$unzip=0, \$createthumbnail=0, \$imageresize="", \$imagepercentage="", \$user="sys", \$checkduplicates=true, \$versioning=false)

## Input parameters

\$site ... publication name
\$location ... destination location
\$cat ... category [page/comp]
\$global\_files ... uploaded file (array as defined by PHP autoglobale \$\_FILES)
\$page ... unzip [1/0]
\$unzip ... object name (only for media file update of existing object)
\$createthumbnail ... create only a new thumbnail [1/0]
\$imageresize ... imageresize [percentage
\$imagepercentage ... null]
\$user ... imagepercentage (%-value as integer)
\$checkduplicates ... user name
\$versioning ... check for duplicates [true, false]

# global input parameters

\$mgmt\_config \$mgmt\_uncompress \$mgmt\_imagepreview \$mgmt\_mediapreview \$mgmt\_mediapptions \$mgmt\_imageoptions \$mgmt\_maxsizepreview \$mgmt\_parser \$eventsystem \$pageaccess \$compaccess \$hiddenfolder \$localpermission \$hcms\_lang

# Output

\$lang

result array

# Description

This function manages all file uploads, like unzip files, create media objects and resize images.

The container name will be extracted from the media file name for updating an existing multimedia file.

# 7.1.118 createmediaobject

# **Syntax**

createmediaobject (\$site, \$location, \$file, \$path\_source\_file, \$user, \$imagepercentage=0)

# Input parameters

\$site ... publication name

\$location ... destination location

\$file ... file name

\$path\_source\_file ... path to source multimedia file (uploaded file in temp directory)

\$user ... user name

\$imagepercentage ... resize original image (100%) by percentage (optional)

#### global input parameters

\$mgmt\_config

\$mgmt\_imageoptions

\$eventsystem

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

# Output

result array

# Description

This function creates an asset (multimedia object) by reading a given source file. The file name must not match the temp file patterns defined in include/tempfilepatterns.inc.php and .recycle for recycled files.

The metadata template is based on the template of the folder the objects resides in.

# 7.1.119 createmediaobjects

#### Syntax

createmediaobjects (\$site, \$location\_source, \$location\_destination, \$user)

## Input parameters

\$site ... publication name

\$location\_source ... source location

\$location\_destination ... destination location \$user ... user name

# global input parameters

\$mgmt\_config

\$mgmt\_imageoptions

\$eventsystem

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

#### Output

result array with all objects created / false

## Description

This function creates media objects by reading all media files from a given source location (used after unzipfile).

The file namey must not match the temp file patterns defined in include/tempfilepatterns.inc.php

# 7.1.120 editmediaobject

#### **Syntax**

editmediaobject (\$site, \$location, \$page, \$format="jpg", \$type="thumbnail", \$user)

## Input parameters

\$site ... publication

\$location ... locationr

\$page ... object name

\$format ... format (file extension w/o dot) (optional)

\$type ... type of image/video/audio file [thumbnail, origthumb(thumbail made from original video/audio), original, any other string present in \$mgmt\_imageoptions] (optional) \$user

# global input parameters

\$wf\_token

\$mgmt\_config

\$mgmt\_imagepreview

\$mgmt\_mediapreview

\$mamt mediaoptions

\$mgmt\_imageoptions

\$mgmt\_maxsizepreview

\$mgmt\_mediametadata

\$hcms\_ext

\$hcms\_lang

\$lang

# Output

result array / false on error (saves original or thumbnail media file of an object for thumbnail only jpeg format is supported as output) user name

#### **Description**

This function mainly uses function createmedia to render the objects media, but at the same time takes care of versioning and the object name, if the file extension has been changed

# 7.1.121 manipulateobject

# **Syntax**

manipulateobject (\$site, \$location, \$page, \$pagenew, \$user, \$action, \$clipboard\_array=array())

# Input parameters

\$site ... publication name
\$location ... location
\$page ... object name
\$pagenew ... new object name (exkl. extension except for action "file\_rename")
\$user ... user
\$action ... action [page\_delete
\$clipboard\_array ... page\_rename

# global input parameters

\$wf\_token \$eventsystem \$mgmt\_config \$mgmt\_mediaoptions \$mgmt\_docoptions \$hcms\_ext \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$cat \$hcms\_lang \$lang

### Output

array

## Description

This function removes, unpublishs, renames and pastes objects and is used by other functions which works as a shell for this function

# 7.1.122 deletemarkobject

# **Syntax**

deletemarkobject (\$site, \$location, \$page, \$user)

### Input parameters

\$site ... publication name \$location ... location \$page ... object \$user ... user name

## global input parameters

\$wf\_token \$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang

## \$lang

### Output

result array

## Description

This function marks a page, asset, or component as deleted.

## 7.1.123 deleteunmarkobject

### **Syntax**

deleteunmarkobject (\$site, \$location, \$page, \$user)

## Input parameters

\$site ... publication name \$location ... location \$page ... object \$user ... user name

# global input parameters

\$wf\_token \$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

## Output

result array

## Description

This function unmarks a page, asset, or component as deleted.

# 7.1.124 deleteobject

## **Syntax**

deleteobject (\$site, \$location, \$page, \$user)

### Input parameters

\$site ... publication name \$location ... location \$page ... object \$user ... user name

### global input parameters

\$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

result array

### Description

This function removes a page, asset, or component by calling the function manipulateobject.

# 7.1.125 renameobject

### **Syntax**

renameobject (\$site, \$location, \$page, \$pagenew, \$user)

### Input parameters

\$site ... publication name\$location ... location\$page ... object\$pagenew ... new object name exkl. file extension\$user ... user

## global input parameters

\$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

### Output

array

### **Description**

This function renames a page or component and calls the function manipulateobject

#### 7.1.126 renamefile

### **Syntax**

renamefile (\$site, \$location, \$page, \$pagenew, \$user)

## Input parameters

\$site ... publication name\$location ... location\$page ... object\$pagenew ... new object including file extension\$user ... user name

#### global input parameters

\$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

array

## Description

This function renames a file (NOT a page or component) and calls the function manipulateobject.

This function renames the file name including the extension and not only the name of an object.

The event that will be executed in the event system is the same as renameobject.

## 7.1.127 cutobject

### **Syntax**

cutobject (\$site, \$location, \$page, \$user, \$clipboard\_add=false, \$clipboard\_session=true)

#### Input parameters

\$site ... publication name[string]
\$location ... location[string]
\$page ... object[string]
\$user ... user[string]
\$clipboard\_add ... add to existing clipboard entries [true, false] (optional)
\$clipboard\_session ... save clipboard in session [true, false] (optional)

## global input parameters

\$eventsystem
\$mgmt\_config
\$cat
\$hcms\_lang
\$lang

## Output

array

## Description

This function cuts a page or component

## 7.1.128 copyobject

### **Syntax**

copyobject (\$site, \$location, \$page, \$user, \$clipboard\_add=false, \$clipboard\_session=true)

#### Input parameters

\$site ... publication name[string]
\$location ... location[string]
\$page ... object[string]
\$user ... user[string]
\$clipboard\_add ... add to existing clipboard entries [true, false] (optional)
\$clipboard\_session ... save clipboard in session [true, false] (optional)

### global input parameters

\$eventsystem
\$mgmt\_config
\$cat
\$hcms\_lang
\$lang

#### **Output**

array

#### Description

This function copies a page or component

## 7.1.129 copyconnectedobject

### Syntax

copyconnectedobject (\$site, \$location, \$page, \$user, \$clipboard\_add=false, \$clipboard\_session=true)

### Input parameters

\$site ... publication name[string]
\$location ... location[string]
\$page ... object[string]
\$user ... user[string]
\$clipboard\_add ... add to existing clipboard entries [true, false] (optional)
\$clipboard\_session ... save clipboard in session [true, false] (optional)

## global input parameters

\$eventsystem \$mgmt\_config \$cat \$hcms\_lang \$lang

### Output

array

### **Description**

This function makes a connected copy of a page or component

### 7.1.130 pasteobject

#### **Syntax**

pasteobject (\$site, \$location, \$user, \$clipboard\_array=array())

### Input parameters

\$site ... publication name[string]
\$location ... location[string]
\$user ... user[string]
\$clipboard\_array ... clipboard entries as array (optional)

# global input parameters

\$eventsystem \$mgmt\_config \$cat \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$hcms\_lang \$lang

### Output

array

### **Description**

This function pastes an object by calling and calls the function manipulateobject

# 7.1.131 lockobject

### **Syntax**

lockobject (\$site, \$location, \$page, \$user)

## Input parameters

\$site ... publication name
\$location ... location
\$page ... object
\$user ... user

## global input parameters

\$eventsystem
\$mgmt\_config
\$cat
\$hcms\_lang
\$lang

#### Output

array

### **Description**

This function locks an object for a specific user

# 7.1.132 unlockobject

## **Syntax**

unlockobject (\$site, \$location, \$page, \$user)

## Input parameters

\$site ... publication name \$location ... location \$page ... object \$user ... user

## global input parameters

\$eventsystem \$mgmt\_config \$cat \$hcms\_lang \$lang

### Output

array

### **Description**

This function unlocks an object of a specific user

## 7.1.133 publishobject

### **Syntax**

publishobject (\$site, \$location, \$page, \$user)

## Input parameters

\$site ... publication name

\$location ... location

\$page ... object (full name incl. extension)

\$user

## global input parameters

\$eventsystem

\$mgmt\_config

\$cat

\$ctrlreload

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

### **Output**

array

### **Description**

This function publishes a page, component or asset

## 7.1.134 publishlinkedobject

#### **Syntax**

publishlinkedobject (\$site, \$location, \$page, \$user)

#### Input parameters

\$site ... publication name \$location ... location \$page ... object \$user ... user name

### global input parameters

\$eventsystem \$mgmt\_config \$cat \$ctrlreload \$hcms\_lang \$lang

## Output

array

### **Description**

This function publishes all linked objects of a given object.

All objects with component links (references) to the given object will be published.

This funtion is only used by publishobject.

## 7.1.135 unpublishobject

### **Syntax**

unpublishobject (\$site, \$location, \$page, \$user)

### Input parameters

\$site ... publication name \$location ... location \$page ... object

#### \$user

### global input parameters

\$eventsystem

\$mgmt\_config

\$cat

\$ctrlreload

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

#### **Output**

array

### Description

This function unpublishes a page or component and calls the function manipulateobject

## 7.1.136 processobjects

## **Syntax**

processobjects (\$action, \$site, \$location, \$file, \$published\_only="0", \$user)

# Input parameters

\$action ... action [publish, unpublish, delete]

\$site ... publication name

\$location ... location

\$file ... object name

\$published\_only ... only published objects [pub, all]

\$user ... user name

### global input parameters

\$eventsystem

\$mgmt\_config

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$hcms\_lang

\$lang

### Output

true/false on error

#### **Description**

Publish, unpublish or delete all objects recursively. This function is used by the job 'minutely' to process all objects of the queue.

In order to process all objects recursively a folder name need to be provided and not the .folder file.

This function should not be used for the graphical user interface since it does not provide feedback about the process state!

## 7.1.137 collectobjects

#### **Syntax**

collectobjects (\$root\_id, \$site, \$cat, \$location, \$published\_only="0")

### Input parameters

\$root\_id ... root ID

\$site ... publication name

\$cat ... category [page, comp]

\$location ... location

\$published\_only ... collect only published objects [0, 1]

#### global input parameters

\$user

\$pageaccess

\$compaccess

\$mgmt\_config

\$hiddenfolder

\$hcms\_lang

\$lang

#### Output

result array / false

#### Description

Help function used to create a list of all objects inside a folder

## 7.1.138 manipulateallobjects

## Syntax

manipulateallobjects (\$action, \$objectpath\_array, \$method="", \$force="start", \$published\_only=0, \$user, \$tempfile="", \$maxitems=5)

### Input parameters

\$action ... action [publish

\$objectpath\_array ... unpublish

\$method ... deletemark

\$force ... deleteunmark/restore

\$published\_only ... emptypin

\$user ... delete

\$tempfile ... paste]

\$maxitems ... objectpath (array)

#### global input parameters

\$eventsystem

\$mgmt\_config

\$cat

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_lang

\$lang

#### Output

true/false

#### **Description**

This function is used to perform actions on multiple objects and is mainly used by popup\_status.php.

This functions should only be used in connection with the GUI of the system.

### 7.1.139 remoteclient

### **Syntax**

remoteclient (\$action, \$root, \$site, \$location, \$locationnew, \$page, \$pagenew)

### Input parameters

\$action ... action [save \$root ... copy \$site ... delete \$location ... rename \$locationnew ... get] \$page ... root [abs\_path\_link \$pagenew ... abs\_path\_media

## global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

### **Output**

http answer [string] or false

### **Description**

Sends data to remote client via http post

## 7.1.140 HTTP\_Post

### **Syntax**

HTTP\_Post (\$URL, \$data, \$contenttype="application/x-www-form-urlencoded", \$charset="UTF-8", \$referrer="")

### Input parameters

\$URL ... URL[string]
\$data ... \$data[array] (raw data)
\$contenttype ... content-type [application/x-www-form-urlencoded
\$charset ... multipart/form-data]
\$referrer ... character set [string]

### **Output**

http response [string] / false on error

#### Description

Sends data via http post and returns response

## 7.1.141 HTTP\_Get

### **Syntax**

HTTP\_Get (\$URL, \$data="", \$contenttype="application/x-www-form-urlencoded", \$charset="UTF-8")

## Input parameters

\$URL ... URL[string]
\$data ... \$data[array] (raw data) (optional)
\$contenttype ... content-type[string excl. charset] (optional)
\$charset ... character set[string] (optional)

#### Output

http response [string] / false on error

### **Description**

Sends data via http get and returns response

## 7.1.142 HTTP\_Proxy

#### **Syntax**

HTTP\_Proxy (\$URL, \$enable\_file=false)

### Input parameters

**\$URL** ... URL[string]

\$enable\_file ... enable post of files [true, false] (optional)

# global input parameters

\$mgmt\_config

#### **Output**

http response [string] / false on error

### **Description**

Sends all global POST/GET and FILES data via http post and returns response

### 7.1.143 loadbalancer

#### **Syntax**

loadbalancer (\$type)

### Input parameters

\$type ... type [renderimage, rendervideo, uploadfile]

#### global input parameters

\$mgmt\_config

#### **Output**

http response [string] / false on error or if disabled

### **Description**

Balances the load by sending all global POST/GET and FILES to one service ressource of a given array of service ressources.

Don't define and use the same server ressources in \$mgmt\_config['url\_path\_service'], this can lead to an infinite loop.

## 7.1.144 savelog

## **Syntax**

savelog (\$error, \$logfile="event")

### Input parameters

\$error ... name of log file without extension (optional)
\$logfile ... return\_type [string, array] (optional)

# global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

true / false on error

### Description

Loads a log file an returns the data as string or array for all log records.

## 7.1.145 deletelog

### **Syntax**

deletelog (\$logname="")

### Input parameters

\$logname ... logname (optional)

### global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

### Output

result array

### **Description**

Deletes a log file.

## 7.1.146 debuglog

## **Syntax**

debuglog (\$code)

### Input parameters

\$code ... code to write to debug file

## global input parameters

\$user
\$mgmt\_config
\$hcms\_lang
\$lang

#### **Output**

true / false

### **Description**

Writes code lines into debug file in data/log/debug.log

# 7.1.147 notifyusers

## **Syntax**

notifyusers (\$site, \$location, \$object, \$event, \$user\_from)

### Input parameters

\$site ... publication name\$location ... location\$object ... object name\$event ... event name [oncreate, onedit, onmove, ondelete]

\$user\_from ... user name

### global input parameters

\$user
\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

#### Output

true / false on error

#### Description

Notifies all users based on the given event and location

### 7.1.148 sendlicensenotification

### **Syntax**

sendlicensenotification (\$site, \$cat, \$folderpath, \$text\_id, \$date\_begin, \$date\_end, \$user, \$format="%Y-%m-%d")

#### Input parameters

\$site ... publication name
\$cat ... category [page, comp]
\$folderpath ... folder path
\$text\_id ... text ID for text field
\$date\_begin ... search from date (YYYY-MM-DD)
\$date\_end ... search till date (YYYY-MM-DD)
\$user ... user name string or array (optional)
\$format ... date format (optional)

## global input parameters

\$eventsystem \$mgmt\_config \$hcms\_lang\_codepage \$hcms\_lang \$lang

### Output

true / false on error

### **Description**

Searches for objects with a date in a defined text field that has to be between the defined date limits and sends a message to the defined users.

This is a helper function for function licensenotification.

### 7.1.149 licensenotification

#### Syntax

licensenotification ()

### Input parameters

## global input parameters

\$eventsystem
\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang

## \$lang

#### **Output**

true / false on error

### Description

This function reads the license notification configuration and looks up all objects with a date in a defined text field

that has to be between the defined date limits and sends a message to the defined users.

### 7.1.150 html\_diff

#### **Syntax**

html\_diff (\$old, \$new)

## Input parameters

\$old ... old text \$new ... new text

### Output

result text showing deleted and inserted words/differences / false on error

### Description

Paul's Simple Diff Algorithm v 0.1

Function html\_diff is a wrapper for the diff command, it takes two strings and returns the differences in HTML. The tags used are <ins> and <del>, which can easily be styled with CSS.

## 7.1.151 createfavorite

# **Syntax**

createfavorite (\$site="", \$location="", \$page="", \$id="", \$user)

### Input parameters

\$site ... publication name (optional) \$location ... location (optional) \$page ... object name (optional) \$id ... identifier (object ID \$user ... object hash) (optional)

### global input parameters

\$mgmt\_config

### Output

true / false

## 7.1.152 deletefavorite

### **Syntax**

deletefavorite (\$site="", \$location="", \$page="", \$id="", \$user)

## Input parameters

\$site ... publication name (optional) \$location ... location (optional) \$page ... object name (optional) \$id ... identifier (object ID \$user ... object hash) (optional)

## global input parameters

\$mgmt\_config

### Output

true / false

## 7.1.153 rewrite\_targetURI

## **Syntax**

rewrite\_targetURI (\$site, \$text\_id, \$uri, \$exclude\_dir\_esc="", \$rewrite\_type="include")

### Input parameters

\$site ... publication name
\$text\_id ... text ID array (text-ID as key and URL paramaters as value)
\$uri ... requested URI as string
\$exclude\_dir\_esc ... exclude path as array (optional)
\$rewrite\_type ... rewrite type [none, forward, include] (optional)

### global input parameters

\$mgmt\_config
\$publ\_config

#### **Output**

target URI / false on error

## 7.1.154 rewrite\_homepage

### **Syntax**

rewrite\_homepage (\$site, \$rewrite\_type="forward")

#### Input parameters

\$site ... publication name
\$rewrite\_type ... rewrite type [none, forward] (optional)

#### global input parameters

\$mgmt\_config
\$publ\_config

#### **Output**

target URI / false on error

#### **Description**

Uses the page root directory of the publication configuration and forwards to the default index page. No page include supported!

## 7.1.155 sendmessage

#### **Syntax**

sendmessage (\$from\_user, \$to\_user, \$title, \$message, \$object\_id="")

### Input parameters

\$from\_user ... from\_user name \$to\_user ... to\_user name \$title ... title \$message ... message \$object\_id ... object ID or object path (optional)

#### global input parameters

\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### Output

true/false

### **Description**

Sends a message via e-mail to a user

# 7.2 Get API Functions

# 7.2.1 getserverload

### **Syntax**

getserverload ()

### Input parameters

## Output

Returns the average system load (the number of processes in the system run queue) over the last minute and the number of CPU cores as array

## 7.2.2 getconfigvalue

### **Syntax**

getconfigvalue (\$config, \$in\_key="")

#### Input parameters

\$config ... settings array

\$in\_key ... value/substring in array key (optional)

### Output

value of setting

### **Description**

Help function for createinstance

## 7.2.3 getsession

#### **Syntax**

getsession (\$variable, \$default="")

### Input parameters

\$variable ... session variable name
\$default ... default session value (optional)

### Output

session value

## 7.2.4 getrequest

#### **Syntax**

getrequest (\$variable, \$force\_type=false, \$default="")

### Input parameters

\$variable ... request variable name

\$force\_type ... must be of certain type [numeric, array, publicationname, locationname, objectname, url, bool] (optional)

\$default ... default value (optional)

#### **Output**

request value

### Description

Returns the value of a POST, GET or COOKIE request, or a default value if not valid.

# 7.2.5 getrequest\_esc

#### **Syntax**

getrequest\_esc (\$variable, \$force\_type=false, \$default="", \$js\_protection=false)

#### Input parameters

\$variable ... request variable name

\$force\_type ... must be of certain type [numeric, array, publicationname, locationname, objectname] (optional)

\$default ... default value (optional)

\$js\_protection ... remove characters to avoid JS injection [true, false] (optional)

#### **Output**

request value

#### Description

Returns the escaped value in order to prevent XSS from POST, GET or COOKIE variables. Returns a default value if not valid.

## 7.2.6 getuserip

### **Syntax**

getuserip ()

### Input parameters

#### Output

IP address of client / false on error

#### Description

Retrieves the IP address of the client/user.

## 7.2.7 getobjectlistcells

## **Syntax**

getobjectlistcells (\$viewportwidth, \$is\_mobile=0)

### Input parameters

\$viewportwidth ... width of viewport or window in pixels \$is\_mobile ... is mobile device [0, 1] (optional)

#### Output

number of table cells/rows for the gallery view of object lists

# 7.2.8 getlanguageoptions

### **Syntax**

getlanguageoptions ()

## Input parameters

## global input parameters

\$mgmt\_config

### **Output**

array with 2-digit language code as key and language name in English as value / false on error

## 7.2.9 getlanguagefile

### **Syntax**

getlanguagefile (\$lang="en")

## Input parameters

\$lang ... language code (optional)

## global input parameters

\$mgmt\_config

#### Output

language file name

# 7.2.10 getcodepage

### **Syntax**

getcodepage (\$lang="en")

### Input parameters

\$lang ... language code (optional)

# global input parameters

\$mgmt\_config

\$hcms\_lang\_codepage

#### Output

code page (character set)

# 7.2.11 getcalendarlang

### **Syntax**

getcalendarlang (\$lang="en")

## Input parameters

\$lang ... language code (optional)

## global input parameters

\$mgmt\_config

# Output

supported language code for calendar

# 7.2.12 getescapedtext

### **Syntax**

getescapedtext (\$text, \$charset="", \$lang="")

## Input parameters

\$text ... word as string\$charset ... 2-digit language code (optional)\$lang

### global input parameters

\$mgmt\_config

#### **Output**

array holding all synonyms including the provided word / false on error

#### **Description**

Returns the synonyms of a word.

# 7.2.13 getsearchhistory

#### **Syntax**

getsearchhistory (\$user="")

### Input parameters

\$user ... user name (optional)

## global input parameters

\$mgmt\_config

## Output

array holding all expressions (in single quotes) of the search history of a user / false on error

## 7.2.14 gettaxonomy\_sublevel

# **Syntax**

gettaxonomy\_sublevel (\$site, \$lang="en", \$tax\_id="0")

# Input parameters

\$site ... publication name
\$lang ... language code (optional)
\$tax\_id ... taxonomy parent ID (optional)

# global input parameters

\$mgmt\_config
\$mgmt\_lang\_shortcut\_default
\$taxonomy

### Output

array holding all keywords of the next taxonomy level / false on error

## Description

Returns sorted keywords of a taxonomy level (multilingual support based on taxonomies). Global variable \$taxonomy can be used to pass the taxonomy as array.

# 7.2.15 gettaxonomy\_childs

#### **Syntax**

gettaxonomy\_childs (\$site="", \$lang="", \$expression, \$childlevels=1, \$id\_only=true)

### Input parameters

\$site ... publication name (optional)

\$lang ... language code (optional)

\$expression ... taxonomy ID or expression or taxonomy path in the form

%taxonomy%/publication-name or 'default'/language-code/taxonomy-ID/taxonomy-child-levels as string

\$childlevels ... taxonomy child levels as integer (optional)

\$id\_only ... only return taxonomy IDs without language and keyword information [true, false] (optional)

### global input parameters

\$mgmt\_config
\$mgmt\_lang\_shortcut\_default
\$taxonomy

#### **Output**

array holding all taxonomy IDs / false on error

#### **Description**

Returns keywords based on taxonomy defintion and synonyms if expression is a keyword (multilingual support based on taxonomies and synonyms).

The expression can be a taxonomy path in the form of %taxonomy%/site/language-code/taxonomy-ID/taxonomy-child-levels (use "all" for all languages and "0" for all taxonomy-IDs on first level).

Global variable \$taxonomy can be used to pass the taxonomy as array.

### 7.2.16 gethierarchy\_defintion

### **Syntax**

gethierarchy\_defintion (\$site, \$selectname="")

## Input parameters

\$site ... publication name

\$selectname ... hierarchy name (optional)

## global input parameters

\$mgmt\_config

#### Output

hierarchy array in form of array[name][level][text-id][language] = label / false on error

## Description

Reads the metadata/content hierarchy defintion and returns a multidimensinal array.

## 7.2.17 gethierarchy\_sublevel

### **Syntax**

gethierarchy\_sublevel (\$hierarchy\_url)

## Input parameters

\$hierarchy\_url ... hierarchy URL in form of %hierarchy%/publication-name/hierarchy-name/hierarchy-level-of-last-element/text-ID-1=value-1/text-ID-2=value-2/text-ID-3

## global input parameters

\$mgmt\_config
\$lang

### **Output**

array holding all hierarchy URLs as key and text content or label as value / false on error

### **Description**

Returns sorted values of a metadata/content hierarchy level.

### 7.2.18 getkeywords

### **Syntax**

getkeywords (\$site="")

## Input parameters

\$site ... publication name (optional)

### global input parameters

\$mgmt\_config

#### **Output**

keywords as array / false on error

# Description

Generates an array holding all keywords and the number as value and keyword ID as key.

# 7.2.19 getmetakeywords

## **Syntax**

getmetakeywords (\$text, \$language="en", \$charset="UTF-8")

### Input parameters

\$text ... text as string \$language ... language to be used for stop word list [de, en, ...] (optional) \$charset ... character set (optional)

### global input parameters

\$mgmt\_config

#### Output

keywords as array /false on error

#### **Description**

Generates a keyword list from a plain text. Stop word lists are defined in data/include/stopwords.inc.php

## 7.2.20 getmetadescription

#### **Syntax**

getmetadescription (\$text, \$charset="UTF-8")

#### Input parameters

\$text ... text as string \$charset

### **Output**

cleanded description of provided text /false on error

### Description

Generates a description from a text, to be used as meta information.

# 7.2.21 getgooglesitemap

### **Syntax**

getgooglesitemap (\$site, \$dir, \$url, \$getpara=array(), \$permalink=array(), \$chfreq="weekly", \$prio="", \$ignore=array(), \$filetypes=array('cfm', 'htm', 'html', 'xhtml', 'asp', 'aspx', 'jsp', 'php', 'pdf'), \$show\_freq=true, \$show\_prio=true)

### Input parameters

\$site ... publication anme
\$dir ... directory path
\$url ... URL to directory
\$getpara ... GET parameters to use for new versions of the URL as array (optional)
\$permalink ... permanent links text-ID to use for location as array (optional)
\$chfreq ... frequency of google scrawler [never, weekly, daily] (optional)
\$prio ... priority [1 or less] (optional)
\$ignore ... ignore file names as array (optional)
\$filetypes ... allowed file types as array (optional)
\$show\_freq ... include frequency tag [true, false] (optional)
\$show\_prio ... include priority tag [true, false] (optional)

#### global input parameters

\$mgmt\_config
\$publ\_config

#### Output

xml sitemap / false on error

### **Description**

Generates a google sitemap xml-output

## 7.2.22 getlistelements

### **Syntax**

getlistelements (\$list\_sourcefile)

### Input parameters

\$list\_sourcefile ... content of file attribute of list of keyword tag

#### global input parameters

\$mgmt\_config
\$lang

### Output

string with list/keyword elements sperated by commas / false

## 7.2.23 getmetadata

### Syntax

getmetadata (\$location, \$object, \$container="", \$seperator="\n", \$template="")

### Input parameters

\$location ... location

\$object ... object (both optional if container is given)

\$container ... container name/ID or container content (optional)

\$seperator ... seperator of meta data fields [any string, array] (optional)
\$template ... publication name/template name to extract label names (optional)

## global input parameters

\$mgmt\_config

#### **Output**

string with all metadata from given object based on container / false

# 7.2.24 getmetadata\_multiobjects

### **Syntax**

getmetadata\_multiobjects (\$multiobject\_array, \$user)

## Input parameters

\$multiobject\_array ... converted path of multiple objects as array \$user ... user name

### global input parameters

\$mgmt\_config \$siteaccess \$pageaccess \$compaccess \$hiddenfolder

\$adminpermission

\$localpermission

#### Output

assoziatve array with all text content and meta data / false

#### Description

Extracts all metadata including media information for a provided list of objects. This function is used for the CSV export in the objectlist views and also evaluates the access permissions of the user.

## 7.2.25 getmetadata\_container

#### **Syntax**

getmetadata\_container (\$container\_id, \$text\_id\_array)

## Input parameters

\$container\_id ... container ID
\$text\_id\_array ... array of text IDs

# global input parameters

\$mgmt\_config \$labels

#### **Output**

assoziatve array with all text content and meta data / false

### **Description**

Extracts container, media, and metadata information of a container. This function is used for the presentation of metadata for objectlist views.

## 7.2.26 getobjectcontainer

#### **Syntax**

getobjectcontainer (\$site, \$location, \$object, \$user)

### Input parameters

\$site ... publication [string] \$location ... location [string] \$object ... object [string] \$user ... user [string]

### global input parameters

\$mgmt\_config

#### Output

Content Container [XML]/false

### **Description**

Loads the content container of a given object (page, component, folder)

## 7.2.27 getcontainer

## **Syntax**

getcontainer (\$containerid, \$type)

## Input parameters

\$containerid ... container name or container ID \$type ... container type [published

### global input parameters

\$mgmt\_config

#### **Output**

Contant Container [XML]/false

## Description

Obsolete function used as an alias for the loadcontainer function without the possibility to load locked containers

## 7.2.28 getwallpaper

### **Syntax**

getwallpaper (\$version="")

### Input parameters

\$version ... version number (optional)

# global input parameters

\$mgmt\_config

## **Output**

URL of wallpaper image / false

#### **Description**

Provides a wallpaper image or video used for the logon and home screen.

## 7.2.29 getcontainername

#### **Syntax**

getcontainername (\$container)

### Input parameters

\$container ... container name (e.g. 0000112.xml.wrk) or container ID

### global input parameters

\$mgmt\_config

#### Output

Array with file name of the working content container (locked or unlocked!) and username if locked

## 7.2.30 getlocationname

### **Syntax**

getlocationname (\$site, \$location, \$cat, \$source="path")

## Input parameters

\$site ... publication name
\$location ... location path (as absolute path or converted path)
\$cat ... category [page, comp]
\$source ... source for name [path, name]

### global input parameters

\$mgmt\_config \$lang \$hcms\_lang\_codepage

#### Output

location with readable names instead of file names / false on error

# 7.2.31 getthemelocation

#### **Syntax**

getthemelocation (\$theme="")

#### Input parameters

\$theme ... theme name (optional)

# global input parameters

\$mgmt\_config

## Output

path to theme / false

#### **Description**

Returns the absolute path (URL) of the theme (css and images).

## 7.2.32 getcategory

### **Syntax**

getcategory (\$site="", \$location)

## Input parameters

\$site ... publication name (optional) \$location ... location path

### global input parameters

\$mgmt\_config
\$publ\_config

category ['page comp'] / false on error

### **Description**

Evaluates the category ['page, comp'] of a location

## 7.2.33 getpublication

## **Syntax**

getpublication (\$path)

### Input parameters

\$path ... converted location path

### Output

publication name

## Description

Extract the publication name of a location path

# 7.2.34 getlocation

## **Syntax**

getlocation (\$path)

### Input parameters

\$path ... location path

## Output

location (without object or folder)

### Description

Extract the location excluding object or folder of a location path

## 7.2.35 getobject

## **Syntax**

getobject (\$path)

## Input parameters

\$path ... location path

### Output

object or folder name

## Description

Extract the object or folder of a location path

## 7.2.36 getmediacontainername

#### **Syntax**

getmediacontainername (\$file)

### Input parameters

\$file ... file name

container name / false on error

### Description

Extract the container name from a multimedia file name by using the hcm-ID

## 7.2.37 getmediafileversion

### **Syntax**

getmediafileversion (\$container)

#### Input parameters

\$container ... container name or container ID

### global input parameters

\$mgmt\_config
\$user

## Output

media file name / false on error

### **Description**

Extracts the name from the multimedia file by container name or ID in order to get the media file of older content versions.

if the result is false, there is no older media file version.

# 7.2.38 getobjectid

## **Syntax**

getobjectid (\$objectlink)

### Input parameters

\$objectlink ... converted object path or pathes separated by |

### Output

object ID

### **Description**

Converts the object path to the object ID of any object

## 7.2.39 getobjectlink

#### **Syntax**

getobjectlink (\$objectid)

#### Input parameters

\$objectid ... converted object ID or IDs separated by |

#### **Output**

converted object link

#### **Description**

Converts the object ID to the object path of any object

# 7.2.40 getcontainerversions

### **Syntax**

getcontainerversions (\$container)

### Input parameters

\$container ... container ID or container name

#### global input parameters

\$mgmt\_config

#### Output

array of all versions (array[version-extension] = file-name) / false

# 7.2.41 getlocaltemplates

## **Syntax**

getlocaltemplates (\$site, \$cat="")

## Input parameters

\$site ... publication name

\$cat ... template category [page, comp, meta, inc] (optional)

# global input parameters

\$mgmt\_config

#### **Output**

array with all template names / false

## Description

This function returns a list of all templates of a publication without inherited templates from other publications.

## 7.2.42 gettemplates

# **Syntax**

gettemplates (\$site, \$cat="all")

## Input parameters

\$site ... publication name

\$cat ... object category [all, page, comp, meta] (optional)

## global input parameters

\$user \$mgmt\_config \$hcms\_lang \$lang

### Output

template file name list as array / false on error

### Description

This function returns a list of all templates for pages or components.

Based on the inheritance settings of the publication the template will be loaded with highest priority from the own publication and if not available from a parent publication.

# 7.2.43 gettemplateversions

### **Syntax**

gettemplateversions (\$site, \$template)

### Input parameters

\$site ... publication name \$template ... template name

#### global input parameters

\$mgmt\_config

#### **Output**

array of all versions (array['YYYY-MM-DD HH:MM:SS'] = file-name) / false

## 7.2.44 getfileinfo

### **Syntax**

getfileinfo (\$site, \$file, \$cat="comp")

### Input parameters

\$site ... publication name (optional)
\$file ... file name incl. extension
\$cat ... category [page, comp] (optional)

### global input parameters

\$mgmt\_config

### Output

array/false

#### Description

defines file properties based on the file extension and returns file info as an array:

\$result['file']: file name without hypercms management extension

\$result['name']: readable file name without hypercms management extension

\$result['filename']: file name without file extensions

\$result['icon']: file name of the file icon

\$result['type']: file type

\$result['ext']: file extension incl. dot in lower case

\$result['published']: if file is published = true else = false \$result['deleted']: if file is deleted = true else = false

# 7.2.45 getobjectinfo

### **Syntax**

getobjectinfo (\$site, \$location, \$object, \$user="sys", \$container\_version="")

# Input parameters

\$site ... publication name
\$location ... location
\$object ... object name
\$user ... user name (optional)
\$container\_version ... container version (optional)

### global input parameters

\$mgmt\_config

#### Output

result array / false on error

## Description

Get all file pointers (container, media, template) and object name from object file and collect info from container version, if provided

## 7.2.46 getfilesize

# **Syntax**

getfilesize (\$file)

### Input parameters

\$file ... converted path to file or directory

## global input parameters

\$mgmt\_config

#### **Output**

result array with file size in kB and file count / false on error

### Description

This function won't give you a proper result of the file size of multimedia components, if there is no Database installed.

## 7.2.47 getmimetype

#### **Syntax**

getmimetype (\$file)

## Input parameters

\$file ... file name incl. extension

### global input parameters

\$mgmt\_config

### Output

mime\_type

### **Description**

Gets the mime-type of the file by its extension.

If file has a version file extension the next file extension will be used.

## 7.2.48 getfiletype

## **Syntax**

getfiletype (\$file\_ext)

# Input parameters

\$file\_ext ... file extension or file name

## global input parameters

\$mgmt\_config
\$hcms\_ext

### Output

file type to be saved in database based on file extension

# 7.2.49 getpreviewwidth

### **Syntax**

getpreviewwidth (\$site, \$filepath, \$width\_orig="")

### Input parameters

\$site ... publication name (optional)
\$filepath ... path to file or file name
\$width\_orig ... original width (optional)

### global input parameters

\$mgmt\_config
\$hcms\_ext

#### **Output**

result array with width and height / false on error

### **Description**

Returns the default preview/annotation width in pixel of a document, image, or video

# 7.2.50 getpdfinfo

## **Syntax**

getpdfinfo (\$filepath, \$box="MediaBox")

### Input parameters

\$filepath ... path to PDF file \$box ... box attribute [BleedBox, CropBox, MediaBox] (optional)

# global input parameters

\$mgmt\_config \$mgmt\_imagepreview \$user

### **Output**

result array with width and height / false on error

### **Description**

Extracts width and height in pixel of a PDF file based on the MediaBox in the filex content or ImageMagick as fallback

## 7.2.51 getvideoinfo

#### Syntax

getvideoinfo (\$mediafile)

# Input parameters

\$mediafile ... path to video file

#### global input parameters

\$mgmt\_config \$mgmt\_mediapreview \$user

## Output

video file information as result array / false on error

### Description

Extract video metadata from video file.

## 7.2.52 getbrowserinfo

### **Syntax**

getbrowserinfo ()

## Input parameters

#### **Output**

client browser and version as array / false on error

# 7.2.53 getcontentlocation

#### **Syntax**

getcontentlocation (\$container\_id, \$type="abs\_path\_content")

### Input parameters

\$container\_id ... container id
\$type ... type [url\_path\_content

## global input parameters

\$mgmt\_config

#### Output

location of the container file / false on error

#### **Description**

Gets the content location based on the given container id.

The use of various directories is necessary since the number of directories is limited by the filesystem, e.g. Linux ext3 is limited to 32000.

## 7.2.54 getmedialocation

## **Syntax**

getmedialocation (\$site, \$file, \$type)

## Input parameters

\$site ... publication name

 $file \dots multimedia file name (including hcm-ID)$ 

\$type ... type [url\_path\_media

## global input parameters

\$mgmt\_config
\$publ\_config

#### **Output**

location of the multimedia file / false on error

### **Description**

Gets the media repsitory location from \$mgmt\_config array.

The function supports up to 10 media repositories.

Any other rules for splitting the media files on multiple devices can be implemented as well by the function getmedialocation\_rule.

# 7.2.55 getlockedfileinfo

### **Syntax**

getlockedfileinfo (\$location, \$file)

### Input parameters

\$location ... location to file \$file ... file name

# global input parameters

\$mgmt\_config

#### Output

Array holding file name incl. lock extension and user name / false on error

### Description

Finds the locked file and returns the name and user as array

# 7.2.56 getfavorites

### **Syntax**

getfavorites (\$user, \$output="path")

## Input parameters

\$user ... user name
\$output ... output [path, id] (optional)

## global input parameters

\$mgmt\_config

#### **Output**

object info or object id array of users favorites / false

## 7.2.57 getboxes

# **Syntax**

getboxes (\$user)

## Input parameters

\$user ... user name

## global input parameters

\$mgmt\_config

### Output

selected home box names of user as array / false

## 7.2.58 getusersonline

#### **Syntax**

getusersonline ()

### Input parameters

## global input parameters

\$mgmt\_config
\$siteaccess

Array of online user names / false

## 7.2.59 getchatstate

## **Syntax**

getchatstate (\$register=true)

#### Input parameters

\$register ... register stat in session [true/false] (optional)

## global input parameters

\$mgmt\_config

### Output

state of chat / false on error

## 7.2.60 getimagelib

### **Syntax**

getimagelib ()

## Input parameters

## global input parameters

\$mgmt\_imagepreview

### Output

name of image library used [GD ImageMagick] / false on error

## 7.2.61 getfilename

### **Syntax**

getfilename (\$filedata, \$tagname)

### Input parameters

\$filedata ... file content

\$tagname ... hyperCMS tag name in page or component

## Output

file name

## Description

Extracts the file name of the content and template pointer tags of an object file

# 7.2.62 gethypertag

#### **Syntax**

gethypertag (\$filedata, \$tagname, \$offset=0)

### Input parameters

\$filedata ... file content [string]

\$tagname ... full/partly hyperCMS tag name (with or without hyperCMS:) [string]

\$offset ... offset position [integer]

full hyperCMS tag array [array]/false on error

### Description

Finds the hyperCMS tag start and end position and returns an array of the whole tags including all information.

Offset value must be integer value and is used to skip search for hyperCMS tag till offset position of filedata.

# 7.2.63 gethypertagname

### **Syntax**

gethypertagname (\$tagdata)

### Input parameters

\$tagdata ... full hyperCMS tag

#### Output

full hyperCMS tag name/false on error

### Description

Reads the name of the hyperCMS tag

## 7.2.64 gethtmltag

#### **Syntax**

gethtmltag (\$filedata, \$tag)

### Input parameters

\$filedata ... file content

\$tag ... full hyperCMS tag (or other identifier)

#### Output

full html tag/false on error

#### Description

Finds the first html tag start and end position of a nested hyperCMS tag and returns the whole tag including all information.

Works also if other script tags are nested in the HTML-tag.

This function is not case sensitive!

## 7.2.65 gethtmltags

#### **Syntax**

gethtmltags (\$filedata, \$tag)

#### Input parameters

\$filedata ... file content

\$tag ... full hyperCMS tag or other identifier in html tag

#### **Output**

string from html tag start to end tag/false on error

#### **Description**

Finds the nearest html tag start and end position of a nested hyperCMS tag and returns the whole tag including all information.

This functions works also for html-tag pairs like <a href></a>, <div></div> and so on.

# 7.2.66 getattribute

### **Syntax**

getattribute (\$string, \$attribute, \$secure=true)

### Input parameters

\$string ... string including attributes

\$attribute ... attribute name

\$secure ... secure attribute value reg. XSS (optional)

### **Output**

attribute value/false on error

#### Description

Get the value of a certain attribute out of a string (...attributname=value....)

## 7.2.67 getoption

### **Syntax**

getoption (\$string, \$option)

### Input parameters

\$string ... string including options

\$option ... option name

#### **Output**

option value / false on error

### **Description**

Get the value of a certain option out of a string (-c:v value -ar 44100)

# 7.2.68 getcharset

### **Syntax**

getcharset (\$site, \$data)

# Input parameters

\$site ... publication

\$data ... data from template or content container [string]

#### global input parameters

\$mgmt\_config

#### Output

array with content-type and charset / false on error

#### Description

Extract the content-type definition and the character set from the template (1st priority), content container (2nd priority) or publication settings (3rd priority)

# 7.2.69 getartid

#### **Syntax**

getartid (\$id)

#### Input parameters

\$id ... string including id

article id/false on error

### Description

Extract the article ID from the tag ID

# 7.2.70 getelementid

### **Syntax**

getelementid (\$id)

#### Input parameters

\$id ... string including id

### Output

element id/false on error

### Description

Extract the element ID from the tag ID

## 7.2.71 getfirstkey

### **Syntax**

getfirstkey (\$array)

### Input parameters

\$array ... array

## **Output**

array key of first element in array if \$value is not empty / false on error

## 7.2.72 getdirectoryfiles

### **Syntax**

getdirectoryfiles (\$dir, \$pattern="")

#### Input parameters

\$dir ... path to directory

\$pattern ... pattern as string (optional)

## Output

sorted array of all files matching the pattern / false on error

# 7.2.73 getuserinformation

## **Syntax**

getuserinformation ()

### Input parameters

## global input parameters

\$mgmt\_config
\$user

#### Output

assoziative array with basic user information [publication->username->attribute] / false

### **Description**

This function creates an assoziative array with user information, e.g. for a user select box.

# 7.2.74 getworkflowitem

### **Syntax**

getworkflowitem (\$site, \$workflow\_file, \$workflow, \$user)

#### Input parameters

\$site ... publication name [string] \$workflow\_file ... location name [string] \$workflow ... object name [string] \$user ... workflow file name [string]

#### global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

### Output

workflow item [XML-string]

## 7.3 Set API Functions

## 7.3.1 setsession

# **Syntax**

setsession (\$variable, \$content="", \$write=false)

### Input parameters

\$variable ... temporary hyperCMS variable name or array\$content ... value as string or array (optional)\$write ... write session data for load balancer [true, false] (optional)

#### Output

true / false on error

# 7.3.2 settaxonomy

#### **Syntax**

settaxonomy (\$site, \$container\_id, \$langcode="")

# Input parameters

\$site ... publication name
\$container\_id ... container ID
\$langcode ... 2-digit language code (optional)

### global input parameters

\$mgmt\_config \$taxonomy

#### Output

result array / false on error

#### **Description**

Analyzes the content regarding all taxonomy keywords, saves results in database and returns

an array (multilingual support based on taxonomies). Global variable \$taxonomy can be used to pass the taxonomy as array.

#### 7.3.3 setarticle

### **Syntax**

setarticle (\$site, \$contentdata, \$contentfile, \$arttitle, \$artstatus, \$artdatefrom, \$artdateto, \$artuser, \$user)

#### Input parameters

\$site ... publication name \$contentdata ... container (XML) \$contentfile ... container name \$arttitle ... article title array \$artstatus ... article status array \$artdatefrom ... article beginn date array \$artdateto ... article end date array \$artuser ... user array or string \$user ... user name

### global input parameters

\$mgmt\_config

#### **Output**

updated content container (XML) false on error

### Description

Set article content in container. The content container will be returned and not saved.

#### 7.3.4 settext

### **Syntax**

settext (\$site, \$contentdata, \$contentfile, \$text, \$type, \$art, \$textuser, \$user, \$charset="", \$addmicrotime=false)

# Input parameters

\$site ... publication name
\$contentdata ... container (XML)
\$contentfile ... container name
\$text ... text array
\$type ... type array or string [u, f, l, c, d, k]
\$art ... article array or string [yes, no]
\$textuser ... text user array or string
\$user ... user name
\$charset ... character set of text content
\$addmicrotime ... add microtime to ID [true, false] used for comments

#### global input parameters

\$mgmt\_config \$publ\_config

### Output

updated content container (XML) false on error

# Description

Set text content in container and database. The content container will be returned and not saved.

### 7.3.5 setmedia

#### **Syntax**

setmedia (\$site, \$contentdata, \$contentfile, \$mediafile, \$mediaobject\_curr, \$mediaobject, \$mediaalttext, \$mediaalign, \$mediawidth, \$mediaheight, \$art, \$mediauser, \$user, \$charset="")

## Input parameters

\$site ... publication name

\$contentdata ... container (XML)

\$contentfile ... container name

\$mediafile ... media arrays (some are optional)

\$mediaobject\_curr ... article array or string [yes, no]

\$mediaobject ... content user array or string

\$mediaalttext ... user name

\$mediaalign ... chracter set of text content

\$mediawidth

\$mediaheight

\$art

\$mediauser

\$user

\$charset

# global input parameters

\$mgmt\_config

#### Output

updated content container (XML)

false on error

### Description

Set media content in container and database. The content container will be returned and not saved.

### 7.3.6 setpagelink

### **Syntax**

setpagelink (\$site, \$contentdata, \$contentfile, \$linkhref\_curr, \$linkhref, \$linktarget, \$linktext, \$art, \$linkuser, \$user, \$charset="")

### Input parameters

\$site ... publication name

\$contentdata ... container (XML)

\$contentfile ... container name

\$linkhref\_curr ... current link array

\$linkhref ... new link array

\$linktarget ... link target array

\$linktext ... link text array

\$art ... article array or string [yes, no]

\$linkuser ... content user array or string

\$user ... user name

\$charset ... chracter set of text content

# global input parameters

\$mgmt\_config

### Output

updated content container (XML) false on error

### **Description**

Set link content in container and database. The content container will be returned and not saved.

### 7.3.7 setcomplink

### **Syntax**

setcomplink (\$site, \$contentdata, \$contentfile, \$component\_curr, \$component, \$condition, \$art, \$compuser, \$user)

# Input parameters

\$site ... publication name
\$contentdata ... container (XML)
\$contentfile ... container name
\$component\_curr ... component arrays (some are optional)
\$component ... article array or string [yes, no]
\$condition ... content user array or string
\$art ... user name
\$compuser
\$user

### global input parameters

\$mgmt\_config

#### Output

updated content container (XML) false on error

### **Description**

Set component link content in container and database. The content container will be returned and not saved.

### 7.3.8 sethead

### **Syntax**

sethead (\$site, \$contentdata, \$contentfile, \$headcontent, \$user, \$charset="")

#### Input parameters

\$site ... publication name \$contentdata ... container (XML) \$contentfile ... container name \$headcontent ... content array \$user ... user name \$charset ... chracter set of text content

### global input parameters

\$mgmt\_config

### Output

updated content container (XML) false on error

## Description

Only used for content in general head information of container.

### 7.3.9 setfilename

### **Syntax**

setfilename (\$filedata, \$tagname, \$value)

## Input parameters

\$filedata ... file content \$tagname ... hyperCMS tag name in page or component [content \$value ... template

#### Output

filedata/false on error

### **Description**

Sets or creates the file name of the hyperCMS content file, template file, media file or file name pointer

### 7.3.10 setboxes

### **Syntax**

setboxes (\$name\_array, \$user)

### Input parameters

\$name\_array ... home box names as array or string \$user ... user name

## global input parameters

\$mgmt\_config

### Output

true / false

# 7.4 Connect API Functions

## 7.4.1 ftp\_userlogon

### **Syntax**

ftp\_userlogon (\$server, \$user, \$passwd, \$ssl=false)

### Input parameters

\$server ... FTP servername or IP \$user ... user name \$passwd ... password \$ssl ... SSL [true, false] (optional)

## global input parameters

\$mgmt\_config

#### Output

true / false on error

### **Description**

This function connects and performs logon to an FTP server

# 7.4.2 ftp\_userlogout

### **Syntax**

ftp\_userlogout (\$conn\_id)

### Input parameters

\$conn\_id ... FTP connection

# global input parameters

\$mgmt\_config

### **Output**

true / false on error

### Description

This function disconnects from an FTP server

# 7.4.3 ftp\_getfile

# **Syntax**

ftp\_getfile (\$conn\_id, \$remote\_file, \$local\_file, \$passive=true)

## Input parameters

\$conn\_id ... FTP connection
\$remote\_file ... path to file on FTP server
\$local\_file ... passive mode [true, false] (optional)
\$passive

### global input parameters

\$mgmt\_config

#### Output

true / false on error

#### **Description**

This function gets a file from the FTP server

# 7.4.4 ftp\_putfile

### **Syntax**

ftp\_putfile (\$conn\_id, \$local\_file, \$remote\_file, \$passive=true)

### Input parameters

\$conn\_id ... FTP connection \$local\_file ... path to local file \$remote\_file ... path to file on FTP server \$passive ... passive mode [true, false] (optional)

## global input parameters

\$mgmt\_config

### Output

true / false on error

### **Description**

This function puts a file to the FTP server

# 7.4.5 ftp\_filelist

### **Syntax**

ftp\_filelist (\$conn\_id, \$path=".", \$passive=true)

### Input parameters

\$conn\_id ... FTP connection
\$path ... path to remote directory (optional)
\$passive ... passive mode [true, false] (optional)

## global input parameters

\$mgmt\_config

### Output

result array / false on error

### Description

This function gets a file/directory listing of the FTP server

## 7.4.6 createsharelink\_facebook

#### **Syntax**

createsharelink\_facebook (\$site, \$url)

### Input parameters

\$site ... URL to share \$url

### global input parameters

\$mgmt\_config

#### Output

Share URL / false on error

## 7.4.7 createsharelink\_twitter

### **Syntax**

createsharelink\_twitter (\$site, \$url, \$text)

### Input parameters

\$site ... URL to share \$url ... message to share \$text

## global input parameters

\$mgmt\_config

### Output

Share URL / false on error

# 7.4.8 createsharelink\_googleplus

#### **Syntax**

createsharelink\_googleplus (\$site, \$url)

### Input parameters

\$site ... URL to share

#### global input parameters

\$mgmt\_config

#### **Output**

Share URL / false on error

# 7.4.9 createsharelink\_linkedin

# **Syntax**

createsharelink\_linkedin (\$site, \$url, \$title, \$summary, \$source)

### Input parameters

\$site ... URL to share \$url ... title \$title ... summary (optional) \$summary ... source (optional) \$source

### global input parameters

\$mgmt\_config

#### **Output**

Share URL / false on error

# 7.4.10 createsharelink\_pinterest

### **Syntax**

createsharelink\_pinterest (\$site, \$image\_url, \$title, \$description)

### Input parameters

\$site ... image URL to share \$image\_url ... title \$title ... description (optional) \$description

### global input parameters

\$mgmt\_config

#### Output

Share URL / false on error

# 7.5 Security API Functions

## 7.5.1 rootpermission

#### **Syntax**

rootpermission (\$site\_name, \$site\_admin, \$permission\_str)

### Input parameters

\$site\_name ... publication name
\$site\_admin ... publication admin
\$permission\_str ... permission string from group

## global input parameters

\$rootpermission

# \$mgmt\_config

#### **Output**

global permission array/false

### **Description**

Deseralizes the permission string and and returns the root permission array

# 7.5.2 global permission

### **Syntax**

globalpermission (\$site\_name, \$permission\_str)

### Input parameters

\$site\_name ... publication \$permission\_str ... permission string from group

#### **Output**

global permission array/false

### **Description**

Deseralizes the permission string and returns the global permission array

## 7.5.3 localpermission

## **Syntax**

localpermission (\$site\_name, \$permission\_str)

### Input parameters

\$site\_name ... publication
\$permission\_str ... permission string from group

### **Output**

local permission array/false

### **Description**

Deseralizes the permission string and returns the local permission array

# 7.5.4 accessgeneral

#### **Syntax**

accessgeneral (\$site, \$location, \$cat)

### Input parameters

\$site ... publication\$location ... location (path to folder)\$cat ... object category ['page

## global input parameters

\$mgmt\_config
\$hiddenfolder
\$siteaccess

#### **Output**

true/false

## Description

Checks general access to certain system folders, publications and returns true if access is granted

# 7.5.5 accesspermission

#### **Syntax**

accesspermission (\$site, \$location, \$cat)

## Input parameters

\$site ... location (path to folder) \$location ... object category ['page \$cat ... comp']

### global input parameters

\$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$mgmt\_config

### Output

group with access permissions as array / false on error

#### **Description**

Evaluates page and component access permissions and returns group(s)

# 7.5.6 setlocal permission

### **Syntax**

setlocalpermission (\$site, \$group\_array, \$cat)

#### Input parameters

\$site ... publication \$group\_array ... group name array \$cat ... object category [page, comp]

# global input parameters

\$localpermission

### Output

local permission array / false on error

#### **Description**

Sets local permissions of a user group for a specific publication

## 7.5.7 checkpublicationpermission

# **Syntax**

checkpublicationpermission (\$site, \$strict=true)

## Input parameters

\$site ... publication name

\$strict ... strictly limited to siteaccess only without inheritance [true/false] (optional)

### global input parameters

\$mgmt\_config
\$siteaccess

## **Output**

"direct" for direct access via group permission / "inherited" for access through inheritance / false

## Description

Checks access to a publication based on the site access and inheritance settings

# 7.5.8 checkadminpermission

### **Syntax**

checkadminpermission ()

#### Input parameters

# global input parameters

\$adminpermission

### Output

true/false

## Description

Checks super admin permission

## 7.5.9 checkrootpermission

### **Syntax**

checkrootpermission (\$name)

### Input parameters

\$name ... permission name

### global input parameters

\$rootpermission

#### **Output**

true/false

### **Description**

Checks root permission

## 7.5.10 checkglobalpermission

# **Syntax**

checkglobalpermission (\$site, \$name)

### Input parameters

\$site ... publication name \$name ... permission name

### global input parameters

\$globalpermission

#### Output

true/false

#### **Description**

Checks global permission for a publication

# 7.5.11 checklocalpermission

#### **Syntax**

checklocalpermission (\$site, \$group, \$name)

### Input parameters

\$site ... publication name \$group ... user group name \$name ... permission name

## global input parameters

\$\$localpermission

#### **Output**

true/false

### **Description**

Checks local permissions of a user group for a specific publication

## 7.5.12 userlogin

#### **Syntax**

userlogin (\$user, \$passwd, \$hash="", \$objref="", \$objcode="", \$ignore\_password=false, \$locking=true)

#### Input parameters

\$user ... username
\$passwd ... password
\$hash ... hash code of user
\$objref ... object reference for hcms linking (object ID)
\$objcode ... object code for hcms linking (crypted object ID)
\$ignore\_password ... ignore passwordcheck needed for WebDAV or access link [true/false]
\$locking ... lock IP after 10 failed attempts to login [true/false]

### global input parameters

\$mgmt\_config
\$eventsystem
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

#### **Output**

result array

#### **Description**

Login of user by sending user and password using the variables: \$sentuser, \$sentpasswd This procedure will register the user in the hypercms session and in the php session. The procedure will return true or false using the variable \$result.

## 7.5.13 registerinstance

### **Syntax**

registerinstance (\$instance, \$load\_config=true)

### Input parameters

\$instance ... instance name

\$load\_config ... load main config of instance [true/false] (optional)

# global input parameters

\$mgmt\_config

#### **Output**

true/false

## 7.5.14 createchecksum

# **Syntax**

createchecksum (\$permissions="")

### Input parameters

\$permissions ... array or empty

## Output

MD5 checksum

### **Description**

Creates the checksum of the user permissions

### 7.5.15 writesession

### **Syntax**

writesession (\$user, \$passwd, \$checksum)

## Input parameters

\$user ... user name \$passwd ... password \$checksum ... checksum

### global input parameters

\$mgmt\_config

### Output

true / false on error

# Description

Writes hyperCMS specific session data of a user

# 7.5.16 writesessiondata

# **Syntax**

writesessiondata ()

## Input parameters

### global input parameters

\$mgmt\_config

#### Output

true / false on error

# Description

Serializes and writes all session data of a user

# 7.5.17 createsession

### **Syntax**

createsession ()

## Input parameters

## global input parameters

\$mgmt\_config

# Output

true

## Description

Checks if session data of a user is available. This function does access session variables directly!

### 7.5.18 killsession

# **Syntax**

killsession (\$user="", \$destroy\_php=true)

## Input parameters

\$user ... user name for hyperCMS session (optional)
\$destroy\_php ... destroy php session [true, false] (optional)

### global input parameters

\$mgmt\_config

## **Output**

true

### **Description**

Destroys session data of user

# 7.5.19 checkdiskkey

#### **Syntax**

checkdiskkey (\$users="", \$site="")

### Input parameters

\$users ... user count (optional)
\$site ... publication names (use | as seperator) (optional)

## global input parameters

\$mgmt\_config

### **Output**

true/false

## Description

Checks the disc key of the installation

## 7.5.20 checkpassword

### **Syntax**

checkpassword (\$password)

### Input parameters

\$password ... password a string

## global input parameters

\$mgmt\_config
\$lang

#### Output

true if passed / error message as string

## Description

This function checks the strength of a password and return the error messages or true

## 7.5.21 loguserip

### **Syntax**

loguserip (\$client\_ip, \$user="sys")

## Input parameters

\$client\_ip ... client IP address
\$user ... user logon name (optional)

## global input parameters

\$mgmt\_config

### Output

true / false on error

# 7.5.22 checkuserip

#### **Syntax**

checkuserip (\$client\_ip, \$user="", \$timeout="")

# Input parameters

\$client\_ip ... client IP address
\$user ... user logon name (optional)
\$timeout ... timeout in minutes (optional)

# global input parameters

\$mgmt\_config

#### Output

true if IP is not locked / false if IP is locked or on error

# 7.5.23 checkuserrequests

## **Syntax**

checkuserrequests (\$user="sys")

## Input parameters

\$user ... user name (optional)

### global input parameters

\$mgmt\_config

### Output

true / false if a certain amount of reguests per minute is exceeded

### Description

Provides security for Cross-Site Request Forgery

#### 7.5.24 checkusersession

### **Syntax**

checkusersession (\$user="sys", \$CSRF\_detection=true)

### Input parameters

\$user ... user name (optional)
\$CSRF\_detection ... include CSRF detection [true, false]

### global input parameters

\$mgmt\_config

#### Output

true / html-output followed by termination requires config.inc.php

### **Description**

Checks if session data of user is correct. This function does access session variables directly!

# 7.5.25 allowuserip

# **Syntax**

allowuserip (\$site)

### Input parameters

\$site ... publication name

# global input parameters

\$mgmt\_config

### Output

true / false requires config.inc.php

# Description

Verifies if the client IP is in the range of valid IPs and logs IP addresses with no access

## 7.5.26 valid\_objectname

# **Syntax**

valid\_objectname (\$variable)

### Input parameters

\$variable ... variable (string or array)

### **Output**

true / false

## **Description**

Checks if an object name includes forbidden characters in order to prevent directory browsing

## 7.5.27 valid\_locationname

### **Syntax**

valid\_locationname (\$variable)

### Input parameters

\$variable ... variable (string or array)

### **Output**

true / false

#### **Description**

Checks if an location includes forbidden characters in order to prevent directory browsing

### 7.5.28 valid\_publicationname

#### **Syntax**

valid\_publicationname (\$variable)

### Input parameters

\$variable ... variable (string or array)

### **Output**

true / false

### **Description**

Checks if a publication name includes forbidden characters in order to prevent directory browsing

## 7.5.29 html encode

### **Syntax**

html\_encode (\$expression, \$encoding="", \$js\_protection=false)

#### Input parameters

\$expression ... variable as string or array

\$encoding ... conversion of all special characters based on given character set or to ASCII (optional)

\$js\_protection ... remove characters to avoid JS injection [true, false] (optional)

## Output

html encoded value as array or string / false on error

### **Description**

This function encodes certain characters (&, <, >, ", ') into their HTML character entity equivalents to protect against XSS.

Converts a string into the html equivalents (also used for XSS protection).

Supports multibyte character sets like UTF-8 as well based on the ASCII value of the character.

# 7.5.30 html\_decode

# **Syntax**

html\_decode (\$expression, \$encoding="")

### Input parameters

\$expression ... epxression as string or array

\$encoding ... conversion of all special characters based on character set (optional)

#### **Output**

html decoded value as array or string / false on error

### Description

This function decodes all characters which have been converted by html\_encode

# 7.5.31 scriptcode\_encode

### **Syntax**

scriptcode\_encode (\$content)

# Input parameters

\$content ... content as string

### global input parameters

\$mgmt\_config

#### **Output**

escaped content as string / false on error

### **Description**

This function escapes all script tags.

This function must be used to clean all user input in the CMS by removing all server side scripts tags.

## 7.5.32 scriptcode\_extract

## **Syntax**

scriptcode\_extract (\$content, \$identifier\_start="<?", \$identifier\_end="?>")

## Input parameters

\$content ... content as string \$identifier\_start ... identifier of script begin \$identifier\_end ... and end

### **Output**

script code as array / false on error or if noting was found

#### Description

This function extracts the script code of a given content

# 7.5.33 scriptcode\_clean\_functions

#### **Syntax**

scriptcode\_clean\_functions (\$content, \$type=3, \$application="PHP")

#### Input parameters

\$content ... content as string
\$type ... cleaning level type from none = 0 to strong = 3 (no cleaning = 0
\$application ... basic set of disabled functions = 1

# global input parameters

\$mgmt\_config

### Output

result array / false on error

### **Description**

This function removes all dangerous PHP functions

# 7.5.34 sql\_clean\_functions

### **Syntax**

sql\_clean\_functions (\$content)

### Input parameters

\$content ... SQL statement as string

# global input parameters

\$mgmt\_config

#### Output

result array / false on error

# Description

This function checks SQL statements for write operations

7.5.35 url\_encode

# **Syntax**

url\_encode (\$variable)

### Input parameters

\$variable ... variable as string or array

## global input parameters

\$mgmt\_config

### Output

urlencoded value as array or string / false on error

#### Description

This function encodes all characters

7.5.36 url\_decode

### **Syntax**

url\_decode (\$variable)

### Input parameters

\$variable ... variable as string or array

# global input parameters

\$mgmt\_config

# Output

urldecoded value as array or string / false on error

## Description

This function decodes all characters which have been converted by url\_encode or urlencode (PHP)

7.5.37 shellcmd\_encode

# Syntax

shellcmd\_encode (\$variable)

## Input parameters

\$variable ... variable as string or array

### **Output**

encoded value as array or string / false on error

### **Description**

This function encodes/escapes characters to secure the shell comand

7.5.38 hcms\_crypt

### **Syntax**

hcms\_crypt (\$string, \$start=0, \$length=0)

### Input parameters

\$string ... string to encode \$start ... start position \$length | length for string 6

\$length ... length for string extraction

### global input parameters

\$mgmt\_config

### Output

encoded string / false on error

# Description

Unidrectional encryption using crc32 and urlencode. Used to create tokens for simple view links in the system.

The tokens can be verified by calculating the hash of the media file name and comparing the hash values.

Don't use this function to secure any string or to for password hashing.

7.5.39 hcms\_encrypt

#### **Syntax**

hcms\_encrypt (\$string, \$key="", \$crypt\_level="", \$encoding="url")

### Input parameters

\$string ... string to encode
\$key ... key of length 16 or 24 or 32 (optional)
\$crypt\_level ... crypt strength level [weak, standard, strong] (optional)
\$encoding ... encoding [base64, url, none] (optional)

## global input parameters

\$mgmt\_config

### Output

encoded string / false on error

### Description

Encryption of a string. Only strong encryption is binary-safe!

7.5.40 hcms\_decrypt

### **Syntax**

hcms\_decrypt (\$string, \$key="", \$crypt\_level="", \$encoding="url")

#### Input parameters

\$string ... hash-string to decode
\$key ... key of length 16 or 24 or 32 (optional)
\$crypt\_level ... crypt strength level [weak, standard, strong] (optional)
\$encoding ... encoding [base64, url, none] (optional)

# global input parameters

\$mgmt\_config

#### Output

decoded string / false on error

## Description

Decryption of a string. Only strong encryption is binary-safe!

#### 7.5.41 createtimetoken

# **Syntax**

createtimetoken (\$lifetime=0, \$secret=4)

### Input parameters

\$lifetime ... token lifetime in seconds (optional) \$secret ... secret value (optional)

## global input parameters

\$mgmt\_config

#### Output

token / false on error

### 7.5.42 checktimetoken

#### **Syntax**

checktimetoken (\$token, \$secret=4)

#### Input parameters

\$token ... token

\$secret ... secret value (optional)

### global input parameters

\$mgmt\_config

### **Output**

true / false

# 7.5.43 createtoken

#### **Syntax**

createtoken (\$user="sys", \$lifetime=0, \$secret=4)

#### Input parameters

\$user ... user name (optional)
\$lifetime ... token lifetime in seconds (optional)
\$secret ... secret value (optional)

### global input parameters

\$mgmt\_config

## Output

token / false on error

# 7.5.44 checktoken

## **Syntax**

checktoken (\$token, \$user="sys", \$secret=4)

# Input parameters

\$token ... token

\$user ... user name (optional)
\$secret ... secret value (optional)

## global input parameters

\$mgmt\_config

### Output

true / false

# 7.5.45 createuniquetoken

#### **Syntax**

createuniquetoken (\$length=16)

#### Input parameters

\$length ... token length (optional)

# global input parameters

\$mgmt\_config

# Output

token as string / false

# 7.5.46 rand\_secure

# **Syntax**

rand\_secure (\$min=1000, \$max=9999999999)

# Input parameters

\$min ... min and max value as integer (optional) \$max

### Output

secure random number / false

## 7.6 Media API Functions

# 7.6.1 indexcontent

### **Syntax**

indexcontent (\$site, \$location, \$file, \$container="", \$container\_content="", \$user)

### Input parameters

\$site ... publication name

\$location ... path to multimedia file

\$file ... multimedia file name (file to be indexed)

\$container ... container name or ID (optional)

\$container\_content ... container XML-content (optional)
\$user ... user name

# global input parameters

\$mgmt\_config
\$mgmt\_parser
\$mgmt\_imagepreview
\$mgmt\_uncompress
\$hcms\_ext
\$hcms\_lang
\$lang

#### Output

true / false

#### **Description**

This function extracts the text content of multimedia objects and writes it the text to the container.

The given charset of the publication (not set by default), container or publication (not set by default) will be used.

The default character set of default.meta.tpl is UTF-8, so all content should be saved in UTF-8

#### 7.6.2 unindexcontent

### **Syntax**

unindexcontent (\$site, \$location, \$file, \$container, \$container\_content, \$user)

### Input parameters

\$site ... publication name \$location ... file location \$file ... file name \$container ... multimedia file to index \$container\_content ... container name or ID \$user ... container XML-content

#### global input parameters

\$mgmt\_config
\$mgmt\_parser
\$hcms\_lang
\$lang

#### Output

true / false

#### Description

This function removes media objects from the container

# 7.6.3 reindexcontent

# **Syntax**

reindexcontent (\$site, \$container\_id\_array="")

## Input parameters

\$site ... publication name
\$container\_id\_array ... container IDs as array (optional)

#### global input parameters

\$mgmt\_config

#### **Output**

true / false

### **Description**

Reindexes all media files of a publication and only for specific containers.

# 7.6.4 createthumbnail\_indesign

## **Syntax**

createthumbnail\_indesign (\$site, \$location\_source, \$location\_dest, \$file)

### Input parameters

\$site ... publication \$location\_source ... path to source dir \$location\_dest ... path to destination dir \$file ... file name

### global input parameters

\$mgmt\_config
\$user

#### Output

new file name / false on error (saves only thumbnail media file in destination location only jpeg format is supported as output)

### Description

Creates a thumbnail by extracting the thumbnail from an indesign file and transferes the generated image via remoteclient.

For good results, InDesign Preferences must be set to save preview image and at extra large size.

## 7.6.5 createthumbnail\_video

#### **Syntax**

createthumbnail\_video (\$site, \$location\_source, \$location\_dest, \$file, \$frame, \$autorotate=false)

### Input parameters

\$site ... publication \$location\_source ... path to source dir \$location\_dest ... path to destination dir \$file ... file name \$frame ... frame of video in the seconds or hh:mm:ss[.xxx] \$autorotate ... autorotate [true, false] (optional)

# global input parameters

\$mgmt\_config
\$mgmt\_mediapreview
\$mgmt\_mediaoptions
\$user

### **Output**

new file name / false on error (saves only thumbnail media file in destination location only jpeg format is supported as output)

#### Description

Creates a thumbnail picture of a video frame

#### 7.6.6 createmedia

### **Syntax**

createmedia (\$site, \$location\_source, \$location\_dest, \$file, \$format="", \$type="thumbnail",
\$force\_no\_encrypt=false)

#### Input parameters

\$site ... publication

\$location\_source ... path to source dir

\$location\_dest ... path to destination dir

\$file ... file name

\$format ... format (file extension w/o dot) (optional)

\$type ... type of image/video/audio file [thumbnail(for thumbnails of images),

origithumb(thumbnail made from original video/audio), original(to overwrite original video/audio file), any other string present in \$mgmt\_imageoptions/\$mgmt\_mediaoptions] (optional)

\$force\_no\_encrypt ... force the file to be not encrypted even if the content of the publication must be encrypted [true, false] (optional)

## global input parameters

\$mgmt\_config

\$mgmt\_imagepreview

\$mgmt mediapreview

\$mgmt\_mediaoptions

\$mgmt\_imageoptions

\$mgmt\_maxsizepreview

\$mgmt\_mediametadata

\$hcms\_ext

\$user

#### Output

new file name / false on error

#### Description

Creates an new image from original or creates a thumbnail and transferes the generated image via remoteclient.

Saves original or thumbnail media file in destination location, for thumbnail only jpeg format is supported as output.

#### 7.6.7 convertmedia

#### **Syntax**

convertmedia (\$site, \$location\_source, \$location\_dest, \$mediafile, \$format, \$media\_config="", \$force\_no\_encrypt=false)

#### Input parameters

\$site ... publication name

\$location\_source ... path to source dir

\$location\_dest ... path to destination dir

\$mediafile ... file name

\$format ... target format (file extension w/o dot) of destination file

\$media\_config ... media configuration to be used (optional)

\$force\_no\_encrypt ... force the file to be not encrypted even if the content of the publication must be encrypted [true, false] (optional)

# global input parameters

\$mgmt\_config

\$mgmt\_imagepreview

\$mgmt\_mediapreview

\$mgmt\_mediaoptions

\$mgmt\_imageoptions

\$mgmt\_maxsizepreview

\$mgmt\_mediametadata

\$hcms\_ext

# Output

new file name / false on error

#### **Description**

Converts and creates a new image/video/audio or document from original. This is a wrapper function for createmedia and createdocument.

# 7.6.8 convertimage

#### **Syntax**

convertimage (\$site, \$file\_source, \$location\_dest, \$format="jpg", \$colorspace="RGB", \$iccprofile="", \$width="", \$height="", \$slug=0, \$units="px", \$dpi=72, \$quality="")

### Input parameters

\$site ... publication name

\$file\_source ... path to source image file

\$location\_dest ... path to destination dir

\$format ... format (file extension w/o dot) of destination file (optional)

\$colorspace ... colorspace of new image [CMY, CMYK, Gray, HCL, HCLp, HSB, HSI, HSL, HSV, HWB, Lab, LCHab, LCHuv, LMS, Log, Luv, OHTA, Rec601YCbCr, Rec709YCbCr, RGB, scRGB,

sRGB, Transparent, XYZ, YCbCr, YCC, YDbDr, YIQ, YPbPr, YUV] (optional)

\$iccprofile ... width in pixel/mm/inch (optional)

\$width ... height in pixel/mm/inch (optional)

\$height ... slug in pixel/mm/inch (optional)

\$slug ... units for width

\$units ... height and slug [px, mm, inch] (optional)

\$dpi ... dpi (optional)

\$quality ... image quality (1 to 100)

#### global input parameters

\$mgmt\_config

\$mgmt\_imagepreview

\$mgmt mediapreview

\$mgmt\_mediaoptions

\$mgmt\_imageoptions

\$mgmt\_maxsizepreview

\$mgmt\_mediametadata

\$hcms\_ext

\$user

## Output

new file name / false on error

### Description

Converts and creates a new image from original. The new image keeps will be resized and cropped to fit width and height.

This is a wrapper function for createmedia.

# 7.6.9 rotateimage

### **Syntax**

rotateimage (\$site, \$filepath, \$angle, \$imageformat)

### Input parameters

\$site ... publication \$filepath ... path to source media file \$angle ... rotation angle

\$imageformat ... destination image format [jpg, png, gif]

### global input parameters

\$mgmt\_config

#### **Output**

new image file name / false on error

### **Description**

Rotates an image (must be jpg, png or gif) using GD library. not used if ImageMagick is available

# 7.6.10 getimagecolors

### **Syntax**

getimagecolors (\$site, \$file)

### Input parameters

\$site ... publication \$file ... media file name

#### global input parameters

\$mgmt\_config
\$user

### **Output**

result array / false on error

### **Description**

Uses the thumbnail image to calculate the mean color (red, green, blue), defines the colorkey (5 most commonly used colors) and the image type (landscape, portrait, square)

# 7.6.11 getimagecolorkey

#### **Syntax**

getimagecolorkey (\$image)

# Input parameters

\$image ... image resource

### global input parameters

\$mgmt\_config

#### Output

color key of image / false on error

#### Description

Extracts the color key for an image that represents the 5 mostly used colors: K...black

W...white

E...grey

R...red

G...green

B...blue

C...cyan

M...magenta

Y...yellow

O...orange

P...pink

N...brown

# 7.6.12 hex2rgb

### **Syntax**

hex2rgb (\$hex)

### Input parameters

\$hex ... image color as hex-code

### Output

RGB-color as array / false on error

# 7.6.13 rgb2hex

### **Syntax**

rgb2hex (\$red, \$green, \$blue)

## Input parameters

\$red ... image color in RGB \$green \$blue

### Output

hex-color as string / false on error

# 7.6.14 readmediaplayer\_config

### **Syntax**

readmediaplayer\_config (\$location, \$configfile)

# Input parameters

\$location ... path to media config file \$configfile ... config file name

# global input parameters

\$mgmt\_config \$user

#### **Output**

config array / false on error

# 7.6.15 savemediaplayer\_config

# **Syntax**

savemediaplayer\_config (\$location, \$configfile, \$mediafiles, \$width=320, \$height=240, \$rotation="", \$filesize="", \$duration="", \$videobitrate="", \$audiobitrate="",

\$audiofrequenzy="", \$audiochannels="", \$video\_codec="", \$audio\_codec="")

#### Input parameters

\$location ... path to media config file

\$configfile ... media config file name

\$mediafiles ... media file name array or string

\$width ... width in px (optional)

\$height ... height in px (optional)

\$rotation ... rotation in degree (optional)

\$filesize ... file size in kB (optional)

\$duration ... duration in hh: mmm:ss (optional)

\$videobitrate ... video bitrate in kb/s (optional)

\$audiobitrate ... audio bitrate in kb/s (optional)

\$audiofrequenzy ... audio frequenzy in Hz (optional)

\$audiochannels ... audio channels [mono

\$video\_codec ... stereo] (optional)

\$audio\_codec ... video codec name (optional)

### global input parameters

\$mgmt\_config

\$user

#### **Output**

true / false on error

### 7.6.16 createdocument

#### **Syntax**

createdocument (\$site, \$location\_source, \$location\_dest, \$file, \$format="",
\$force\_no\_encrypt=false)

# Input parameters

\$site ... publication

\$location\_source ... path to source location

\$location\_dest ... path to destination location

\$file ... file name

\$format ... destination file format (extension w/o dot)

\$force\_no\_encrypt ... force the file to be not encrypted even if the content of the publication must be encrypted [true, false] (optional)

### global input parameters

\$mgmt\_config

\$mamt docpreview

\$mgmt\_docoptions

\$mgmt\_docconvert

\$mgmt\_maxsizepreview

\$hcms\_ext

\$hcms\_lang

\$lang

\$user

#### **Output**

new file name / false on error

### Description

Creates a new multimedia file of given format at source destination using UNOCONV and saves it as thumbnail file at the desitnation location

# 7.6.17 unzipfile

#### **Syntax**

unzipfile (\$site, \$zipfilepath, \$location, \$filename, \$cat="comp", \$user)

### Input parameters

\$site ... publication \$zipfilepath ... path to source zip file \$location ... path to destination location \$filename ... category [page, comp] \$cat ... name of file for extraction \$user ... user

### global input parameters

\$mgmt\_config \$mgmt\_uncompress \$mgmt\_imagepreview \$mgmt\_mediapreview \$mgmt\_mediaoptions

#### **Output**

result array with all object paths / false

### **Description**

Unpacks ZIP file and creates media files in destination location for components or unzips files directly for pages (not recommended due to securoty risks by uplaoding unsecured files).

#### 7.6.18 clonefolder

## **Syntax**

clonefolder (\$site, \$source, \$destination, \$user, \$activity="")

#### Input parameters

\$site ... publication name \$source ... source location \$destination ... destination location \$user ... user name

\$activity ... activity that need to be set for daily stats [download] (optional)

### global input parameters

\$mgmt\_config \$pageaccess \$compaccess \$hiddenfolder \$hcms\_linking \$globalpermission \$setlocalpermission

#### Output

true/false

#### **Description**

Help function for function zipfiles that reads all multimedia files from their multimedia objects and copies them to the same folder structure using the object names.

## 7.6.19 zipfiles

### **Syntax**

zipfiles (\$site, \$multiobject\_array, \$destination="", \$zipfilename, \$user, \$activity="")

# Input parameters

\$site ... publication

\$multiobject\_array ... array with path to source zip files

\$destination ... destination location (if this is null then the \$location where the zip-file resists will be used)

\$zipfilename ... name of ZIP-file

\$user ... user name

\$activity ... activity that need to be set for daily stats [download] (optional)

# global input parameters

\$mgmt\_config

\$mgmt\_compress

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$globalpermission

\$setlocalpermission

## Output

true/false

### Description

Compresses all media files and includes their folder structure in a ZIP file.

## 7.6.20 px2mm

### **Syntax**

px2mm (\$pixel, \$dpi=72)

## Input parameters

\$pixel ... pixel

\$dpi ... dpi (optional)

#### **Output**

pixel / false

#### **Description**

Convert mm to pixel

# 7.6.21 px2inch

# **Syntax**

px2inch (\$pixel, \$dpi=72)

# Input parameters

\$pixel ... pixel

\$dpi ... dpi (optional)

#### **Output**

inch / false

### **Description**

Convert pixel to inches

# 7.6.22 inch2px

### **Syntax**

inch2px (\$inch, \$dpi=72)

# Input parameters

\$inch ... pixel \$dpi ... dpi (optional)

#### **Output**

pixel / false

#### Description

Convert inches to pixel

## 7.6.23 mediasize2frame

### **Syntax**

mediasize2frame (\$mediawidth, \$mediaheight, \$framewidth="", \$frameheight="", \$keepmaxsize=true)

#### Input parameters

\$mediawidth ... media width \$mediaheight ... media height

\$framewidth ... frame width (optional) \$frameheight ... frame height (optional)

\$keepmaxsize ... keep maximum media size based on original dimensions of media without stretching [true, false] (optional)

### **Output**

width and height as array / false

### **Description**

Calculates the width and height of a media to fit into a given frame size.

# 7.6.24 vtt2array

#### **Syntax**

vtt2array (\$vtt)

#### Input parameters

\$vtt ... VTT string

#### **Output**

array / false

#### Description

Converts VTT string to array

# 7.7 Metadata API Functions

## 7.7.1 importmetadata

#### **Syntax**

importmetadata (\$site, \$location, \$file, \$user, \$type="", \$delimiter=";", \$enclosure="", \$charset="utf-8")

# Input parameters

\$site ... publication name
\$location ... location
\$file ... path to CSV file
\$user ... user name
\$type ... type array or string [u, f, l, c, d, k] (optional)
\$delimiter ... delimiter (optional)
\$enclosure ... enclosure (optional)
\$charset ... character set (optional)

# global input parameters

\$mgmt\_config
\$eventsystem

#### Output

true / false

### Description

Imports metadata form CSV file for various assets linked by name or conatiner ID. Empty rows or rows without a delimiter will be ignored.

In order to identify an asset the file name as "Name" or the container ID as "containerID" must be provided in the first row before the content rows.

# 7.7.2 createtaxonomy

### **Syntax**

createtaxonomy (\$recreate=false)

#### Input parameters

\$recreate ... recreate taxonomy file [true, false] (optional)

# global input parameters

\$mgmt\_config

# Output

true / false

# Description

Generates a PHP array from a taxonomy defintion file and saves the PHP file in data/include/publication-name.taxonomy.inc.php

### 7.7.3 splitkeywords

#### Syntax

splitkeywords (\$keywords, \$charset="UTF-8")

# Input parameters

\$keywords ... comma seperated keywords string \$charset ... character set (optional)

#### Output

keywords as array / false on error

# Description

Generates a keyword list from a text by splitting and transforming the comma seperated string.

# 7.7.4 copymetadata

#### **Syntax**

copymetadata (\$file\_source, \$file\_dest)

### Input parameters

\$file\_source ... path to source file \$file\_dest ... path to destination file

#### global input parameters

\$mgmt\_config
\$mgmt\_mediametadata
\$user

## Output

true / false

### **Description**

Copies all meta data from source to destination file using EXIFTOOL

### 7.7.5 extractmetadata

### **Syntax**

extractmetadata (\$file)

### Input parameters

\$file ... path to image file

### global input parameters

\$user \$mgmt\_config \$mgmt\_mediametadata

## Output

result array / false on error

## Description

Extracts all meta data from a file using EXIFTOOL

# 7.7.6 xmlobject2array

## **Syntax**

xmlobject2array (\$obj, \$namespace="")

### Input parameters

\$obj ... XML as object\$namespace ... namespace as array (optional)

#### Output

result array / false

# Description

Converts an xmlobject to an array, provided by xaviered at gmail dot com

## 7.7.7 id3\_getdata

## **Syntax**

## id3\_getdata (\$file)

#### Input parameters

\$file ... path to audio file

### global input parameters

\$mgmt\_config
\$hcms\_ext

### **Output**

result array / false on error

#### **Description**

Requires getID3 library since EXIFTOOL cannot write ID3 tags so far

## 7.7.8 id3\_writefile

#### **Syntax**

id3\_writefile (\$file, \$id3, \$keep\_data=true, \$movetempfile=true)

### Input parameters

\$file ... abs. path to audio file \$id3 ... ID3 tag array

\$keep\_data ... keep existing ID3 data of file [true, false] (optional)

\$movetempfile ... move tempoarary file from unecrypted to encrypted [true, false] (optional)

### global input parameters

\$user \$mgmt\_config \$mgmt\_mediametadata \$hcms\_ext

### **Output**

true / false on error

#### **Description**

Writes ID3 tags into audio file for supported file types and keeps the existing ID3 tags

### 7.7.9 id3\_create

#### **Syntax**

id3\_create (\$site, \$text)

## Input parameters

\$site ... publication name

\$text ... text array (from content container)

### global input parameters

\$mgmt\_config

#### **Output**

ID3 tag array / false on error

# Description

Defines ID3 tag array based on the media mapping of a publication.

# 7.7.10 xmp\_getdata

## **Syntax**

xmp\_getdata (\$file)

### Input parameters

\$file ... path to image file

# global input parameters

\$user
\$mgmt\_config
\$hcms\_ext

#### Output

result array / false on error

## 7.7.11 xmp\_writefile

# **Syntax**

xmp\_writefile (\$file, \$xmp, \$keep\_data=true, \$movetempfile=true)

#### Input parameters

\$file ... abs. path to image file \$xmp ... XMP tag array \$keep\_data ... keep existing XMP data of file [true, false] (optional) \$movetempfile ... move tempoarary file from unecrypted to encrypted [true, false] (optional)

## global input parameters

\$user \$mgmt\_config \$mgmt\_mediametadata \$hcms\_ext

### Output

true / false on error

## Description

Writes XMP tags into image file for supported file types and keeps the existing XMP tags

## 7.7.12 xmp\_create

## **Syntax**

xmp\_create (\$site, \$text)

### Input parameters

\$site ... publication name
\$text ... text array (from content container)

# global input parameters

\$mgmt\_config

### Output

XMP tag array / false on error

## Description

Defines XMP tag array based on the media mapping of a publication

# 7.7.13 geo2decimal

### **Syntax**

geo2decimal (\$deg, \$min, \$sec, \$hemi)

# Input parameters

\$deg ... geo location in degree

\$min ... minutes \$sec ... seconds

\$hemi ... hemisphere [N, O, S, W]

## Output

decimal result / false

7.7.14 exif\_getdata

# **Syntax**

exif\_getdata (\$file)

# Input parameters

\$file ... path to image file

# global input parameters

\$user
\$mgmt\_config
\$hcms\_ext

### Output

result array / false

7.7.15 iptc\_getdata

# Syntax

iptc\_getdata (\$file)

# Input parameters

\$file ... path to image file

# global input parameters

\$user
\$mgmt\_config
\$hcms\_ext

#### Output

result array / false

7.7.16 iptc\_getcharset

### **Syntax**

iptc\_getcharset (\$tag)

# Input parameters

\$tag ... iptc tag that holds character set information

### Output

charset as string / false on error

# Description

Copied from MediaWiki!

Warning, this function does not (and is not intended to) detect all iso 2022 escape codes. In practise, the code for utf-8 is the only code that seems to have wide use. It does detect that code.

According to iim standard, charset is defined by the tag 1:90.

in which there are iso 2022 escape sequences to specify the character set.

the iim standard seems to encourage that all necessary escape sequences are in the 1:90 tag, but says it doesn't have to be.

This is in need of more testing probably. This is definitely not complete.

however reading the docs of some other iptc software, it appears that most iptc software only recognizes utf-8. If 1:90 tag is not present content is

usually ascii or iso-8859-1 (and sometimes utf-8), but no guarantee.

This also won't work if there are more than one escape sequence in the 1:90 tag or if something is put in the G2, or G3 charsets, etc. It will only reliably recognize utf-8. This is just going through the charsets mentioned in appendix C of the iim standard.

# 7.7.17 iptc\_maketag

## **Syntax**

iptc\_maketag (\$record=2, \$tag, \$value)

## Input parameters

\$record ... type of tag (e.g. 2) \$tag ... code of tag (e.g. 025) \$value ... value of tag

#### Output

binary IPTC tag / false on error

#### Description

Convert the IPTC tag to binary code

# 7.7.18 iptc\_writefile

#### **Syntax**

iptc\_writefile (\$file, \$iptc, \$keep\_data=true, \$movetempfile=true)

### Input parameters

\$file ... abs. path to image file

\$iptc ... IPTC tag array

\$keep\_data ... keep existing IPTC data of file [true, false] (optional)

\$movetempfile ... move tempoarary file from unecrypted to encrypted [true, false] (optional)

# global input parameters

\$user

\$mgmt\_config

\$mgmt\_mediametadata

## Output

true / false on error

### Description

Writes IPTC tags into image file for supported file types and keeps the existing IPTC tags

# 7.7.19 iptc\_create

#### Syntax

iptc\_create (\$site, \$text)

# Input parameters

\$site ... publication name

\$text ... text array (from content container)

### global input parameters

\$mgmt\_config

### Output

IPTC tag array / false on error

### **Description**

Defines IPTC tag array based on the medai mapping of a publication

# 7.7.20 createmapping

### **Syntax**

createmapping (\$site, \$mapping)

# Input parameters

\$site ... publication name \$mapping ... mapping definition

### global input parameters

\$mgmt\_config

### Output

true / false on error

### **Description**

Prepares the PHP mapping array from the provided mapping definition and saves media mapping file

# 7.7.21 getmapping

# **Syntax**

getmapping (\$site)

# Input parameters

\$site ... publication name

#### global input parameters

\$mgmt\_config

### **Output**

mapping code for display / false

### **Description**

Load the mapping file of the provided publication.

# 7.7.22 setmetadata

### **Syntax**

```
setmetadata ($site, $location="", $object="", $mediafile="", $mapping="", $containerdata="", $user, $savecontainer=true)
```

### Input parameters

\$site ... publication name

\$location ... location path (optional)

\$object ... object name (optional)

\$mediafile ... media file name (optional)

\$mapping ... mapping array [meta data tag name -> text-id] (optional)

\$containerdata ... container content as XML string (optional)

\$user ... user name

\$savecontainer ... save content container [true, false] (optional)

# global input parameters

\$eventsystem \$mgmt\_config \$hcms\_ext

#### **Output**

container content as XML string / false

### Description

Saves meta data of a multimedia file using a provided mapping in the proper fields of the content container.

If no mapping is given a default mapping will be used.

# 7.8 Link API Functions

# 7.8.1 link\_db\_restore

### **Syntax**

link\_db\_restore (\$site="")

# Input parameters

\$site ... publication name (optional)

# global input parameters

\$mgmt\_config

## Output

true / false on error

## Description

This function restores a given or all link management index files

### 7.8.2 link\_db\_load

#### **Syntax**

link\_db\_load (\$site, \$user)

#### Input parameters

\$site ... publication name

\$user ... user name

# global input parameters

\$mgmt\_config

### **Output**

link database [2 dim. array] or true / false on error

#### **Description**

This function loads and locks the link management database

each record of the link management database has the following design: xml-content container: | absolute path to 1-n objects: | 1-m links used by 1-n objects important: the link management database has to saved or closed after loading it.

# 7.8.3 link\_db\_read

# **Syntax**

link\_db\_read (\$site)

# Input parameters

\$site ... site

## global input parameters

\$mgmt\_config

# **Output**

link database [2 dim. array] or true / false on error

### Description

This function loads the link management database for reading without locking

# 7.8.4 link\_db\_close

### **Syntax**

link\_db\_close (\$site, \$user)

### Input parameters

\$site ... publication name \$user ... user name

#### global input parameters

\$mgmt\_config

# Output

true/false

# Description

closes and unlocks the link management database.

# 7.8.5 link\_db\_save

# **Syntax**

link\_db\_save (\$site, \$link\_db, \$user)

### Input parameters

\$site ... link database array
\$link\_db ... site
\$user ... user

### global input parameters

\$mgmt\_config

#### Output

true/false on error

#### **Description**

This function saves und unlocks the link management database

## 7.8.6 link db update

#### **Syntax**

link\_db\_update (\$site, \$link\_db, \$attribute, \$contentfile, \$cat, \$link\_curr, \$link\_new, \$option)

### Input parameters

\$site ... publication name \$link\_db ... link database [2 dim. array] \$attribute ... attribute ['object' \$contentfile ... 'link'] \$cat ... content container [optional] [string] \$link\_curr ... link category [optional] ['comp' \$link\_new ... 'page'] \$option ... current link [optional

### global input parameters

\$mgmt\_config

#### Output

link database [2 dim. array] or true / false on error

# Description

This function inserts, updates and removes objects and their links from the link management database (add or update a link)

depending on which link is left empty:

link\_curr = "": add new link (just one link matching given category!)

link\_new = "": delete current link in use (just one linkm matching given category!)

link\_curr & link\_new are not empty: update current link with the new one

# 7.8.7 link\_db\_insert

#### **Syntax**

link\_db\_insert (\$site, \$link\_db, \$contentfile, \$cat, \$object)

### Input parameters

\$site ... publication name
\$link\_db ... link database [2 dim. array]
\$contentfile ... content container
\$cat ... link category ['comp
\$object ... page']

#### global input parameters

\$mgmt\_config

#### Output

link database [2 dim. array] or true / false

#### **Description**

This function inserts a new record in the link management database optionally the created object can be also inserted

# 7.8.8 link\_db\_delete

# Syntax

link\_db\_delete (\$site, \$link\_db, \$contentfile)

#### Input parameters

\$site ... link database [2 dim. array] \$link\_db ... content container \$contentfile

# global input parameters

\$mgmt\_config

#### **Output**

link database [2 dim. array] or true / false on error

# Description

This function deletes a record in the link management database

7.8.9 link\_db\_getobject

# **Syntax**

link\_db\_getobject (\$multiobject)

## Input parameters

\$multiobject ... link database attribut (references to objects seperated by |)

### global input parameters

\$mgmt\_config

#### **Output**

objects [array] / false on error

### Description

This function splits the object string into an array of objects.

7.8.10 link\_update

### **Syntax**

link\_update (\$site, \$container, \$link\_old, \$link\_new)

### Input parameters

\$site ... publication name
\$container ... container name
\$link\_old ... old link (converted)
\$link\_new ... new link (converted)

### global input parameters

\$user

\$mgmt\_config

### **Output**

true/false

### **Description**

This function updates the link of the published and working content container and link file

# 7.8.11 getlinkedobject

### **Syntax**

getlinkedobject (\$site, \$location, \$page, \$cat)

### Input parameters

\$site ... publication

\$location ... location

\$page ... object (name and extension)

\$cat ... category [page

# global input parameters

\$mgmt\_config

#### Output

objects which link to the given object [array] or true / false

# Description

This function gets all objects which link to the given object.

works with pages (page links) and components (component links) if link management is enabled.

# 7.8.12 getconnectedobject

### **Syntax**

getconnectedobject (\$container, \$type="work")

# Input parameters

\$container ... container name

\$type ... container type [work, published, version] (optional)

### global input parameters

\$mgmt\_config

\$user

### Output

connected objects[array]

### Description

This function gets all objects which use the same content container and are therefore connected.

### 7.8.13 extractlinks

# **Syntax**

extractlinks (\$textcontent, \$identifier)

#### Input parameters

\$textcontent ... text content as string

\$identifier ... link identifiert ("href" for hyperreferences

# global input parameters

\$mgmt\_config

#### Output

object links [array] / false on error

#### **Description**

This function extracts all links based on it's identifier from a text and returns an array of all links

# 7.9 Plugin API Functions

# 7.9.1 plugin\_getdefaultconf

# **Syntax**

plugin\_getdefaultconf ()

### Input parameters

# Output

default value as array

# 7.9.2 plugin\_readmenu

## **Syntax**

plugin\_readmenu (\$xml, \$pluginFolder)

### Input parameters

\$xml ... plugin xml as string\$pluginFolder ... plugin directory

## global input parameters

\$mgmt\_config

# **Output**

menu point array used by navigator

## Description

Reads Menupoints and menugroups from the xml data.

Be carefull with nesting, function getcontent is used and you can't nest groups inside of groups as a subpoint!

Input parameter \$pluginFolder contains the directory of the plugin.

Returns an Array containing every group and menupoint with its configuration.

# 7.9.3 plugin\_parse

### **Syntax**

plugin\_parse (\$oldData=array())

## Input parameters

\$oldData ... mgmt\_plugin as array (optional)

### global input parameters

\$mgmt\_config

#### Output

mgmt\_plugin as array

### **Description**

Reads the plugin configurations from the file system.

Checks the folder defined in mgmt\_config and searched for plugins and their configurations files.

It either takes needed values from the configuration, from the \$oldData or defaultConfiguration.

# 7.9.4 plugin\_generatedefinition

#### **Syntax**

plugin\_generatedefinition (\$arrayName, \$array)

### Input parameters

\$arrayName ... name of array holding the plugin definitions \$array ... configuration array containing the values and keys

#### global input parameters

\$mgmt\_config

#### **Output**

plugin array / false on error

### **Description**

Generates the Array definition used in php for \$array with the name of \$arrayName. Run recursively through the array and supports boolean, numeric and string types for the key and value.

# 7.9.5 plugin\_saveconfig

## **Syntax**

plugin\_saveconfig (\$configuration)

#### Input parameters

\$configuration ... configuration as array

# global input parameters

\$mgmt\_config

#### **Output**

true / false on error

#### **Description**

Saves the plugin configuration \$configuration into the configuration file.

The configuration file is located in the data/config directory and is named plugin.conf.php.

# 7.9.6 plugin\_generatelink

#### **Syntax**

plugin\_generatelink (\$plugin, \$page, \$control=false, \$additionalGetParameters=false)

#### Input parameters

\$plugin ... plugin name

\$page ... plugin page (relative reference to the plugins main page)

\$control ... control (relative reference to the plugins control page)

\$additionalGetParameters ... additional GET parameters

### global input parameters

\$mgmt\_config

#### Output

plugin link

#### Description

Generates a link to be used when linking to other pages inside of a plugin

# 7.10 User Interface API Functions

### 7.10.1 windowwidth

# **Syntax**

windowwidth (\$type="object")

### Input parameters

\$type ... type [object] (optional)

# global input parameters

\$mgmt\_config

#### Output

window width in pixels

#### Description

Returns the width of the object window when editing/opening an object

# 7.10.2 windowheight

### **Syntax**

windowheight (\$type="object")

# Input parameters

\$type ... type [object] (optional)

# global input parameters

\$mgmt\_config

#### Output

window height in pixels

# Description

Returns the height of the object window when editing/opening an object

# 7.10.3 toggleview

### **Syntax**

toggleview (\$view)

### Input parameters

\$view ... view [detail, small, medium, large]

# global input parameters

\$mgmt\_config

### Output

true / false

#### **Description**

Sets explorer objectlist view parameter

# 7.10.4 togglesidebar

### Syntax

togglesidebar (\$view)

### Input parameters

\$view ... view [true, false]

# global input parameters

\$mgmt\_config

### Output

true / false

# **Description**

Enables or disables the sidebar

### 7.10.5 setfilter

# **Syntax**

setfilter (\$filter\_set)

### Input parameters

\$filter\_set ... set of filters as array with keys [comp, image, document, video, audio] and value [0, 1]

# global input parameters

\$mgmt\_config

# **Output**

true / false

### **Description**

Set filter settings for object view in session

# 7.10.6 objectfilter

# **Syntax**

objectfilter (\$file)

# Input parameters

\$file ... file name

# global input parameters

\$mgmt\_config
\$hcms\_ext

#### **Output**

true / false

# **Description**

If an object name is passing the filter-test. One or more filters need to be set in the session "hcms\_objectfilter".

# 7.10.7 showshorttext

#### Syntax

showshorttext (\$text, \$length=0, \$linebreak=false, \$charset="UTF-8")

## Input parameters

\$text ... text as string

\$length ... max. length of text (minus length starting from the end) (optional)

\$linebreak ... line break instead of cut [true, false] only if length is positive (optional) \$charset ... character set for encoding (optional)

### **Output**

shortened text if possible or orignal text

### **Description**

Reduce the length of a string and add "..." at the end

## 7.10.8 showtopbar

## **Syntax**

showtopbar (\$show, \$lang="en", \$close\_link="", \$close\_target="", \$individual\_button="", \$id="bar")

### Input parameters

\$show ... message \$lang ... language code (optional) \$close\_link ... close button link (optional) \$close\_target ... link target (optional) \$individual\_button ... individual button (optional) \$id ... ID of div-layer (optional)

### global input parameters

\$mgmt\_config
\$hcms\_charset
\$hcms\_lang

#### **Output**

top bar box / false on error

# Description

Returns the standard top bar with or without close button

# 7.10.9 showtopmenubar

### **Syntax**

showtopmenubar (\$show, \$menu\_array, \$lang="en", \$close\_link="", \$close\_target="", \$id="bar")

### Input parameters

\$show ... message \$menu\_array ... menu as array [key=name \$lang ... value=properties/events] \$close\_link ... language code (optional) \$close\_target ... close button link (optional) \$id ... link target (optional)

## global input parameters

\$mgmt\_config
\$hcms\_charset
\$hcms\_lang

#### **Output**

top bar box / false on error

# Description

Returns the menu top bar with or without close button

# 7.10.10 showmessage

# **Syntax**

showmessage (\$show, \$width="580px", \$height="70px", \$lang="en", \$style="", \$id="hcms\_messageLayer")

# Input parameters

\$show ... message \$width ... width in pixel (optional) \$height ... height in pixel (optional) \$lang ... language code (optional) \$style ... additional style definitions of div-layer (optional) \$id ... ID of div-layer (optional)

## global input parameters

\$mgmt\_config
\$hcms\_charset
\$hcms\_lang

## **Output**

message box / false on error

# Description

Returns the standard message box with close button

# 7.10.11 showinfopage

# **Syntax**

showinfopage (\$show, \$lang="en", \$onload="")

# Input parameters

\$show ... message \$lang ... language code (optional) \$onload ... on load JS events (optional)

### global input parameters

\$mgmt\_config
\$hcms\_charset
\$hcms\_lang\_codepage
\$hcms\_lang

#### Output

message on html info page / false on error

#### **Description**

Returns a full html info page

# 7.10.12 showinfobox

#### Syntax

showinfobox (\$show, \$lang="en", \$style="", \$id="hcms\_infoboxLayer")

#### Input parameters

\$show ... message \$lang ... language code (optional) \$style ... additional style definitions of div-layer (optional) \$id ... ID of div-layer (optional)

### global input parameters

\$mgmt\_config \$hcms\_charset \$hcms\_lang\_codepage \$hcms\_lang

### **Output**

message in div layer / false on error

#### **Description**

Returns the infobox as long as it has not been closed. Saves the close event in localstorage of browser.

### 7.10.13 showsharelinks

### **Syntax**

showsharelinks (\$link, \$mediafile, \$lang="en", \$style="", \$id="hcms\_shareLayer")

### Input parameters

\$link ... link to share \$mediafile ... media file name \$lang ... language code (optional) \$style ... additional style definitions of div-layer (optional) \$id ... ID of div-layer (optional)

# global input parameters

\$mgmt\_config \$hcms\_charset \$hcms\_lang\_codepage \$hcms\_lang

#### **Output**

message in div layer / false on error

# Description

Returns the presenation of share links of social media platforms

# 7.10.14 showmetadata

#### **Syntax**

showmetadata (\$data, \$lang="en", \$class\_headline="hcmsRowData2")

### Input parameters

\$data ... meta data as array \$lang ... hierarchy level \$class\_headline ... CSS-class with background-color for headlines (optional)

### global input parameters

\$mgmt\_config
\$hcms\_charset
\$hcms\_lang\_codepage
\$hcms\_lang

#### **Output**

result as HTML unordered list / false on error

# 7.10.15 showobject

### **Syntax**

showobject (\$site, \$location, \$page, \$cat="", \$name="")

# Input parameters

\$site ... publication name \$location ... location \$page ... object name \$cat \_\_category [page co

\$cat ... category [page, comp] (optional)

\$name ... object name (optional)

#### global input parameters

\$mgmt\_config \$hcms\_charset \$hcms\_lang \$lang

#### Output

html presentation / false

### 7.10.16 showmedia

### **Syntax**

showmedia (\$mediafile, \$medianame, \$viewtype, \$id="", \$width="", \$height="", \$class="hcmsImageItem")

### Input parameters

\$mediafile ... mediafile (publication/filename)
\$medianame ... name of mediafile for display
\$viewtype ... view type [template, media\_only, preview, preview\_download,
preview\_no\_rendering]
\$id ... ID of the HTML media tag
\$width ... width in px (optional)
\$height ... height in px (optional)
\$class ... CSS class (optional)

### global input parameters

\$site

\$mgmt\_config

\$mgmt\_mediapreview

\$mgmt\_mediaoptions

\$mgmt\_imagepreview

\$mgmt\_docpreview

\$mgmt\_docconvert

\$hcms\_charset

\$hcms\_lang\_codepage

\$hcms\_lang

\$lang

\$site

\$location

\$cat

\$page

\$user

⊅u26i

\$pageaccess

\$compaccess

\$hiddenfolder

\$hcms\_linking

\$setlocalpermission \$mgmt\_imageoptions \$is\_mobile \$is\_iphone

#### **Output**

html presentation of any media asset / false

#### Description

This function requires site, location and cat to be set as global variable in order to validate the access permission of the user

# 7.10.17 showcompexplorer

### **Syntax**

```
showcompexplorer ($site, $dir, $location_esc="", $page="", $compcat="multi", $search_expression="", $search_format="", $mediatype="", $lang="en", $callback="", $scalingfactor="1")
```

# Input parameters

\$site ... publication name

\$dir ... current explorer location

\$location\_esc ... object location (optional)

\$page ... object name (optional)

\$compcat ... component category [single, multi, media] (optional)

\$search\_expression ... search expression (optional)

\$search\_format ... search format [object, document, image, video, audio] (optional)

\$mediatype ... media-type [audio, video, text, flash, image, compressed, binary] (optional)

\$lang ... callback of CKEditor (optional)

\$callback ... saclingfactor for images (optional)

\$scalingfactor

### global input parameters

\$user

\$mgmt\_config

\$siteaccess

\$pageaccess

\$compaccess

\$rootpermission

\$globalpermission

\$localpermission

\$hiddenfolder

\$html5file

\$temp\_complocation

\$hcms\_charset

\$hcms\_lang

#### Output

explorer with search / false on error

## Description

Creates component explorer including the search form

#### 7.10.18 showeditor

## **Syntax**

```
showeditor ($site, $hypertagname, $id, $contentbot="", $sizewidth=600, $sizeheight=300, $toolbar="Default", $lang="en", $dpi=72)
```

### Input parameters

\$site ... publication name
\$hypertagname ... hypertag name
\$id ... hypertag id
\$contentbot ... content
\$sizewidth ... width
\$sizeheight ... height of the editor
\$toolbar ... toolbar set
\$lang ... language
\$dpi ... dpi for scaling images

#### global input parameters

\$mgmt\_config
\$publ\_config

#### **Output**

rich text editor code / false on error

### Description

Returns the rich text editor code

# 7.10.19 showinlineeditor\_head

#### **Syntax**

showinlineeditor\_head (\$lang)

## Input parameters

\$lang ... language

### global input parameters

\$mgmt\_config
\$hcms\_charset
\$hcms\_lang

#### Output

rich text editor code for html head section / false on error

### Description

Returns the rich text editor code (JS, CSS) for include into the html head section

# 7.10.20 showinlinedatepicker\_head

### **Syntax**

showinlinedatepicker\_head ()

# Input parameters

### global input parameters

\$mgmt\_config

#### Output

date picker code for html head section / false on error

### **Description**

Returns the date picker code (JS, CSS) for include into the html head section

## 7.10.21 showinlineeditor

#### **Syntax**

showinlineeditor (\$site, \$hypertag, \$id, \$contentbot="", \$sizewidth=600, \$sizeheight=300, \$toolbar="Default", \$lang="en", \$contenttype="", \$cat="", \$location\_esc="", \$page="", \$contentfile="", \$db\_connect=0, \$token="")

#### Input parameters

\$site ... publication name
\$hypertag ... hypertag
\$id ... hypertag id
\$contentbot ... content
\$sizewidth ... width
\$sizeheight ... height of the editor
\$toolbar ... toolbar set
\$lang ... language
\$contenttype ... content-type
\$cat ... category[page, comp]
\$location\_esc ... converted location
\$page ... object name
\$contentfile ... container name
\$db\_connect ... DB-connect file name
\$token ... security token

#### global input parameters

\$mgmt\_config \$publ\_config \$hcms\_charset \$hcms\_lang

#### Output

rich text editor code / false on error

#### **Description**

shows the rich text inline editor

# 7.10.22 showvideoplayer

#### **Syntax**

showvideoplayer (\$site, \$video\_array, \$width=320, \$height=240, \$logo\_url="", \$id="", \$title="", \$autoplay=true, \$fullscreen=true, \$loop=false, \$muted=false, \$controls=true, \$iframe=false, \$force\_reload=false)

# Input parameters

\$site ... videoArray (Array) containing the different html sources

\$video\_array ... width (Integer) Width of the video in pixel

\$width ... height (Integer) Height of the video in pixel

\$height ... logo\_url (String) Link to the logo which is displayed before you click on play (If the value is null the default logo will be used)

\$logo\_url ... id (String) The ID of the video (will be generated when empty)

\$id ... title (String) The title for this video

\$title ... autoplay (Boolean) Should the video be played on load (true)

\$autoplay ... default is false

\$fullscreen ... enableFullScreen (Boolean) Is it possible to view the video in fullScreen (true)

\$loop ... play loop (optional) [true, false]

\$muted ... muted/no sound (optional) [true, false]

\$controls ... player controls (optional) [true, false]

\$iframe ... use video in iframe (optional) [true, false]

\$force\_reload ... reload video sources to prevent the browser cache to show the same video even if it has been changed [true, false] (optional)

# global input parameters

\$mgmt\_config

#### Output

HTML code of the video player / false on error

#### **Description**

Generates a html segment for the video player code

# 7.10.23 showvideoplayer\_head

## **Syntax**

showvideoplayer\_head (\$secureHref=true, \$fullscreen=true)

#### Input parameters

\$secureHref ... secure hyperreferences by adding 'hypercms\_'
\$fullscreen ... is it possible to view the video in fullScreen [true, false]

# global input parameters

\$mgmt\_config

#### **Output**

head for video player / false on error

# 7.10.24 showaudioplayer

# **Syntax**

showaudioplayer (\$site, \$audioArray, \$width=320, \$height=320, \$logo\_url="", \$id="", \$autoplay=false, \$loop=false, \$controls=true, \$force\_reload=false)

## Input parameters

\$site ... publication name
\$audioArray ... audio files as array (Array)
\$width ... ID of the tag (optional)
\$height ... autoplay (optional) [true, false]
\$logo\_url ... play loop (optional) [true, false]
\$id ... player controls (optional) [true, false]
\$autoplay
\$loop
\$controls
\$force\_reload

### global input parameters

\$mgmt\_config

#### **Output**

code of the HTML5 player / false

### **Description**

Generates the html segment for the video player code

# 7.10.25 showaudioplayer\_head

#### **Syntax**

showaudioplayer\_head (\$secureHref=true)

### Input parameters

\$secureHref ... secure hyperreferences by adding 'hypercms\_'

# global input parameters

\$mgmt\_config

### Output

head for audio player

## 7.10.26 debug\_getbacktracestring

## **Syntax**

debug\_getbacktracestring (\$valueSeparator, \$rowSeparator, \$ignoreFunctions=array())

# Input parameters

\$valueSeparator ... separator for arguments\$rowSeparator ... separator for a Row on screen/file\$ignoreFunctions ... functionnames to be ignored

### Output

debug message

### **Description**

Returns the current backtrace as a good readable string. Ignores debug and debug\_getbacktracestring.

### 7.10.27 showAPIdocs

# **Syntax**

showAPIdocs (\$file, \$return="html")

### Input parameters

\$file ... path to API file \$return ... return result as HTML or array [html, array] (optional)

# global input parameters

= array()

### Output

HTML output of documentation / false on error

#### Description

Generates the documentation of an API file

# 7.10.28 readnavigation

#### **Syntax**

readnavigation (\$site, \$docroot, \$object, \$view="publish", \$user="sys")

# Input parameters

\$site ... publication name
\$docroot ... location
\$object ... object name
\$view ... view [see view parameters of function buildview]
\$user ... user name

#### global input parameters

```
$mgmt_config
$navi_config
```

### **Output**

navigation item array / false

#### Description

Reads the content from the container and collects information about a single navigation item

# 7.10.29 createnavigation

### **Syntax**

```
createnavigation ($site, $docroot, $urlroot, $view="publish", $currentobject="",
$recursive=true)
```

### Input parameters

```
$site ... publication name
$docroot ... document root for navigation
$urlroot ... URL root for navigation
$view ... view [see view parameters of function buildview]
$currentobject ... path to current object (optional)
$recursive ... recursive [true, false] (optional)
```

### global input parameters

\$mgmt\_config
\$navi\_config

#### **Output**

navigation array / false

#### **Description**

```
Generates an associative array (item => nav-item, sub => array with sub-items).
Example
$navi config = array();
document root definitions
$navi_config['root_path'] = "%abs_page%/";
$navi_config['root_url'] = "%url_page%/";
HTML / CSS class defintions
$navi_config['attr_ul_top'] = "class=\"nav navbar-nav\"";
$navi_config['attr_ul_dropdown'] = "class=\"dropdown-menu\"";
$navi_config['attr_li_active'] = "class=\"active\"";
$navi_config['attr_li_dropdown'] = "class=\"dropdown\"";
$navi config['attr href dropdown'] = "class=\"dropdown-toggle\" data-
toggle=\"dropdown\"";
$navi_config['tag_li'] = "<a href=\"%link%\"</pre>
%attr_href%>%title%</a>%sub%\n";
$navi_config['tag_ul'] = "%list%\n";
Language definitions
Session variable name that holds the language setting
$navi_config['lang_session'] = "langcode";
2nd key = langcode & value = text_id of textnode
$navi_config['lang_text_id']['DE'] = "Titel_DE";
$navi_config['lang_text_id']['EN'] = "Titel_EN";
PermaLink definitions
2nd key = langcode & value = text_id of textnode
$navi_config['permalink_text_id']['DE'] = "PermaLink_DE";
$navi_config['permalink_text_id']['EN'] = "PermaLink_EN";
Hide navigation item (any value or empty) and use sort order (number or empty)
```

```
$navi_config['hide_text_id'] = "NavigationHide";
$navi_config['sort_text_id'] = "NavigationSortOrder";
Use only index file of directory as navigation item, e.g. index.html or index.php (Keep empty
if all objects of a folder should be included)
$navi_config['index_file'] = "";
$navigation = createnavigation ("%publication%", $navi_config['root_path'],
$navi_config['root_url'], "%view%", "%abs_location%/%object%");
echo shownavigation ($navigation);
```

#### 7.10.30 shownavigation

#### **Syntax**

shownavigation (\$navigation, \$level=1)

#### Input parameters

\$navigation ... navigation array (created by function readnavigation) \$level ... level as integer (optional)

### global input parameters

\$mamt config \$navi\_config

#### **Output**

navigation HTML presentation / false

### Description

```
display navigation as HTML code.
The following example configures the navigation:
$navi_config = array();
document root definitions:
$navi_config['root_path'] = "%abs_page%/";
$navi_config['root_url'] = "%url_page%/";
HTML / CSS class defintions (names between percentage signs are placeholders):
$navi config['attr ul top'] = "class=\"nav navbar-nav\"";
$navi_config['attr_ul_dropdown'] = "class=\"dropdown-menu\"";
$navi_config['attr_li_active'] = "class=\"active\"";
$navi_config['attr_li_dropdown'] = "class=\"dropdown\"";
$navi_config['attr_href_dropdown'] = "class=\"dropdown-toggle\" data-
toggle=\"dropdown\"";
$navi_config['tag_li'] = "<a href=\"%link%\"</pre>
%attr_href%>%title%</a>%sub%\n";
$navi_config['tag_ul'] = "%list%\n";
language definitions
Session variable name that holds the language setting
$navi_config['lang_session'] = "langcode";
note: key = langcode & value = text_id of textnode
$navi_config['lang_text_id']['DE'] = "Titel_DE";
$navi_config['lang_text_id']['EN'] = "Titel_EN";
PermaLink defintions
note: key = langcode & value = text_id of textnode
$navi_config['permalink_text_id']['DE'] = "PermaLink_DE";
$navi_config['permalink_text_id']['EN'] = "PermaLink_EN";
Navigation hide and sort order defintions
$navi_config['hide_text_id'] = "NavigationHide";
$navi_config['sort_text_id'] = "NavigationSortOrder";
Use the first object of a folder for the main navigation item and display all following objects as
sub navigation items [true, false]
$navi_config['use_1st_folderitem'] = false;
```

### 7.10.31 showselect

### **Syntax**

showselect (\$value\_array, \$only\_text=false, \$selected\_value="", \$id="", \$attributes="")

### Input parameters

\$value\_array ... values array (array-key = value
\$only\_text ... array-value = text)
\$selected\_value ... use values of array as option value and text [true, false] (optional)
\$id ... selected value (optional)
\$attributes ... attributes of select tags like name or id or events (optional)

#### Output

HTML select box presentation / false

### 7.10.32 showtranslator

### **Syntax**

showtranslator (\$site, \$id, \$type, \$charset="UTF-8", \$lang="en", \$style="")

## Input parameters

\$site ... publication name \$id ... editor/text-tag ID \$type ... unformatted or formatted texttag-type [u, f] \$charset ... character set (optional) \$lang ... language code (optional) \$style ... style of div tag (optional)

# global input parameters

\$mgmt\_config \$hcms\_lang

#### Output

HTML translator box presentation / false

# 7.10.33 showmapping

#### **Syntax**

showmapping (\$site, \$lang="en")

#### Input parameters

\$site ... publication name \$lang ... language code (optional)

# global input parameters

\$mgmt\_config \$hcms\_charset \$hcms\_lang

#### Output

table with form fields for display / false

# Description

Present the mapping form of the provided publication.

# 7.11 Template Engine API Functions

# 7.11.1 checklanguage

# **Syntax**

checklanguage (\$language\_array, \$language\_value)

### Input parameters

\$language\_array ... language array with all valid values \$language\_value ... language value of attribute in hyperCMS tag

## Output

true if language array holds the given language value / false if not found

# 7.11.2 checkgroupaccess

#### **Syntax**

checkgroupaccess (\$groupaccess, \$ownergroup)

#### Input parameters

\$groupaccess ... group access string from hyperCMS group-tag attribute \$ownergroup ... owner groups as array

#### Output

true if current ownergroup has access or invalid input / false if not

### 7.11.3 transformlink

### **Syntax**

transformlink (\$viewstore)

#### Input parameters

\$viewstore ... view of object

### global input parameters

\$site \$location\_esc \$page \$ctrlreload \$mgmt\_config

#### Output

view with transformed links for easyedit mode

#### 7.11.4 followlink

### **Syntax**

followlink (\$site, \$follow)

## Input parameters

\$site ... publication name \$follow ... link to follow

#### global input parameters

\$mgmt\_config

### Output

prepared input (location plus page) for easyedit mode (buildview) / false on error

#### 7.11.5 errorhandler

#### **Syntax**

errorhandler (\$source\_code, \$return\_code, \$error\_identifier)

# Input parameters

\$source\_code ... source code \$return\_code ... return code \$error\_identifier ... error identifier

#### Output

error message and view of the code with line identifiers

#### 7.11.6 viewinclusions

# **Syntax**

viewinclusions (\$site, \$viewstore, \$hypertag, \$view, \$application, \$charset="UTF-8")

#### Input parameters

\$site ... view of object

\$viewstore ... hypertag to create view of inlcuded objects

\$hypertag ... view parameter

\$view ... application

\$application ... character set used (optional) view-parameter explanation: \$view = "template or any other word" -> the standard text (in table) will be included for the view \$view = "preview" -> preview of the content of the included file \$view = "publish" -> view the content of the included file as ist is (for publishing)
\$charset

### global input parameters

\$user \$mgmt\_config \$location \$hcms\_lang \$lang

### **Output**

view on the content including the content of included objects

#### 7.11.7 buildview

### **Syntax**

buildview (\$site, \$location, \$page, \$user, \$buildview="template", \$ctrlreload="no", \$template="", \$container="", \$force\_cat="", \$execute\_code=true)

# Input parameters

\$site ... publication name \$location ... location \$page ... object

\$user ... user

\$buildview ... view parameter (optional)

\$ctrlreload ... reload workplace control frame and add html & body tags if missing [yes, no] (optional)

\$template ... template name (optional)

\$container ... container name (optional)

\$force\_cat ... force category to use different location path [page, comp] (optional) \$execute\_code ... execute\_code [true/false] (optional)

## global input parameters

\$container\_collection

\$eventsystem

\$db\_connect

\$mgmt\_config

\$siteaccess

\$adminpermission

\$setlocalpermission

\$token

\$is mobile

\$is\_iphone

\$viewportwidth

\$mgmt\_lang\_shortcut\_default

\$hcms\_charset

\$hcms\_lang\_name

\$hcms\_lang\_shortcut

\$hcms\_lang\_codepage

\$hcms\_lang\_date

\$hcms\_lang

\$lang

#### **Output**

result array with view of the content / false on error

#### Description

buildview parameter may have the following values:

\$buildview = "formedit": use form for content editing

\$buildview = "formmeta": use form for content viewing only for meta informations (tag-type must be meta)

\$buildview = "formlock": use form for content viewing

\$buildview = "cmsview": view of page based on template, includes hyperCMS specific code (buttons)

\$buildview = "inlineview": view of page based on template, includes hyperCMS specific code (buttons) and inline text editing

\$buildview = "publish": view of page for publishing based on template without CMS specific code (buttons)

\$buildview = "preview": view of page based on template for preview (inactive hyperlinks) without CMS specific code (buttons)

\$buildview = "template": view of template based on template for preview (inactive hyperlinks) without CMS specific code (buttons)

#### 7.11.8 buildsearchform

#### **Syntax**

buildsearchform (\$site="", \$template="", \$report="", \$ownergroup="", \$css\_display="inline-block")

## Input parameters

\$site ... publication name (optional for report)

\$template ... template name (optional)

\$report ... or report name (optional)

\$ownergroup ... group access as array (optional)

\$css\_display ... CSS display value for label tag (optional)

## global input parameters

\$user
\$mgmt\_config
\$mgmt\_lang\_shortcut\_default
\$hcms\_charset
\$hcms\_lang\_name
\$hcms\_lang\_shortcut
\$hcms\_lang\_codepage
\$hcms\_lang\_date
\$hcms\_lang

#### Output

form view / false on error

#### 7.11.9 buildbarchart

# Syntax

buildbarchart (\$paper\_name, \$paper\_width=600, \$paper\_height=300, \$paper\_top=10, \$paper\_left=40, \$x\_axis, \$y1\_axis, \$y2\_axis="", \$y3\_axis="", \$paper\_style="", \$bar1\_style="", \$bar2\_style="", \$show\_value=false)

#### Input parameters

\$paper\_name ... name/id of paper
\$paper\_width ... width of paper in pixel
\$paper\_height ... height of paper in pixel
\$paper\_top ... top space in pixel
\$paper\_left ... left space in pixel
\$x\_axis ... x-axis values as array
\$y1\_axis ... y1-axis values as array
\$y2\_axis ... y2-axis values as array (optional)
\$y3\_axis ... y3-axis values as array (optional)
\$paper\_style ... paper CSS style
\$bar1\_style ... 1st bar chart CSS style
\$bar2\_style ... 2nd bar chart CSS style
\$bar3\_style ... 3rd bar chart CSS style
\$show\_value ... show y-value in bar [true, false]

# global input parameters

\$lang \$mgmt\_config

#### Output

bar chart view / false on error

# 7.12 XML API Functions

# 7.12.1 valid\_tagname

# Syntax

valid\_tagname (\$tagname)

### Input parameters

\$tagname ... tag name

### Output

true / false on error

## Description

Verifies a tag name

# 7.12.2 setxmlparameter

#### **Syntax**

setxmlparameter (\$xmldata, \$parameter, \$value)

#### Input parameters

\$xmldata ... XML content container \$parameter ... paramater name \$value ... paramater value

#### Output

XML content container / false on error

#### Description

Set parameter values in XML declaration (e.g. encoding): encoding="UTF-8"

### 7.12.3 getcontent

#### **Syntax**

getcontent (\$xmldata, \$starttagname)

## Input parameters

\$xmldata ... XML content container \$starttagname ... tag name

#### Output

result array with the content of the requested XML node (tag) / false on error

#### Description

<tagname>content</tagname>

Extracts the content between the given \$starttagname xml-tags.

Only this function will decode special characters (&, <, >) in the content and removes CDATA. Function getcontent will only decode values if they are non-xml and non\_html. so content inside child nodes including tags won't be decoded.

Wild card character "\*" can be used at the end of \$starttagname.

# 7.12.4 geticontent

# **Syntax**

geticontent (\$xmldata, \$starttagname)

### Input parameters

\$xmldata ... XML content container \$starttagname ... tag name

#### Output

result array with the content of the requested XML node (tag) / false on error

# Description

CASE-Insensitive version (XML parser are however always case-sensitive!) <tagname>content</tagname>

Extracts the content between the given \$starttagname xml-tags.

Only this function will decode special characters (&, <, >) in the content and removes CDATA. getcontent will only decode values if they are non-xml and non\_html. so content inside child

nodes including tags won't be decoded.
Wild card character "\*" can be used at the end of \$starttagname

# 7.12.5 getxmlcontent

#### **Syntax**

getxmlcontent (\$xmldata, \$starttagname)

# Input parameters

\$xmldata ... XML content container \$starttagname ... tag name

#### Output

result array with the content of the requested XML node (tag) / false on error

# Description

<tagname>content</tagname>

Extracts the content together with the \$starttagname xml tags.

This function will NOT decode special characters like function getcontent! Wild card character "\*" can be used at the end of \$starttagname.

# 7.12.6 getxmlicontent

### **Syntax**

getxmlicontent (\$xmldata, \$starttagname)

## Input parameters

\$xmldata ... XML content container \$starttagname ... tag name

#### Output

result array with the content of the requested XML node (tag) / false on error

## Description

CASE-Insensitive version (XML parser are always case-sensitive!) <tagname>content</tagname>

Extracts the content together with the \$starttagname xml tags.

This function will NOT decode special characters like function getcontent! Wild card character "\*" can be used at the end of \$starttagname.

# 7.12.7 selectcontent

# **Syntax**

selectcontent (\$xmldata, \$starttagname, \$startcondtag, \$condvalue)

# Input parameters

\$xmldata ... XML content container

\$starttagname ... tag name of requested XML node

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

## Output

result array with the content of the requested XML node (tag) / false on error

## **Description**

<tagname>

. . . . . . .

<condtag>condvalue</condtag>

. . . . . . . . . .

</tagname>

Extracts the content between the given \$starttagname xml tags where the child xml tag \$startcondtag value is equal with the target value \$condvalue.

Wild card character "\*" can be used at the end of \$starttagname.

Wild card character "\*" can be used at begin and end of \$condvalue.

Be Aware: \$startcondtag must be a child of \$starttagname!

#### 7.12.8 selecticontent

### **Syntax**

selecticontent (\$xmldata, \$starttagname, \$startcondtag, \$condvalue)

### Input parameters

\$xmldata ... XML content container

\$starttagname ... tag name of requested XML node

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

#### Output

result array with the content of the requested XML node (tag) / false on error

### Description

CASE-Insensitive version (XML parser are always case-sensitive!)

<tagname>

. . . . . .

<condtag>condvalue</condtag>

. . . . . . . . . .

</tagname>

Extracts the content between the given \$starttagname xml tags where the child xml tag \$startcondtag value is equal with the target value \$condvalue.

Wild card character "\*" can be used at the end of \$starttagname.

Wild card character "\*" can be used at begin and end of \$condvalue.

Be Aware: \$startcondtag must be a child of \$starttagname!

### 7.12.9 selectxmlcontent

#### **Syntax**

selectxmlcontent (\$xmldata, \$starttagname, \$startcondtag, \$condvalue)

# Input parameters

\$xmldata ... XML content container

\$starttagname ... tag name of requested XML node

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

### Output

result array with the content of the requested XML node (tag) / false on error

## Description

<tagname>

. . . . . . .

<condtag>condvalue</condtag>

. . . . . . .

</tagname>

Extracts the content between the given \$starttagname xml tags where the child xml tag \$startcondtag value is equal with the target value \$condvalue

Wild card character "\*" can be used at begin and end of \$condvalue.

Be Aware: \$startcondtag must be a child of \$starttagname!

#### 7.12.10 selectxmlicontent

#### **Syntax**

selectxmlicontent (\$xmldata, \$starttagname, \$startcondtag, \$condvalue)

# Input parameters

\$xmldata ... XML content container

\$starttagname ... tag name of requested XML node

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

## Output

result array with the content of the requested XML node (tag) / false on error

#### **Description**

CASE-Insensitive version (XML parser are always case-sensitive!)

<tagname>

. . . . . . .

<condtag>condvalue</condtag>

. . . . . . .

</tagname>

Extracts the content between the given \$starttagname xml tags where the child xml tag \$startcondtag value is equal with the target value \$condvalue.

Wild card character "\*" can be used at begin and end of \$condvalue.

Be Aware: \$startcondtag must be a child of \$starttagname!

#### 7.12.11 deletecontent

#### **Syntax**

deletecontent (\$xmldata, \$starttagname, \$startcondtag, \$condvalue)

#### Input parameters

\$xmldata ... XML content container

\$starttagname ... tag name of requested XML node

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

# Output

XML content container / false on error

### Description

<tagname>

<condtag>condvalue</condtag>

</tagname>

Deletes the whole xml content including <tagname>.

Wild card character "\*" can be used at begin and end of \$condvalue.

# 7.12.12 deleteicontent

#### Svntax

deleteicontent (\$xmldata, \$starttagname, \$startcondtag, \$condvalue)

#### Input parameters

\$xmldata ... XML content container

\$starttagname ... tag name of requested XML node

\$startcondtag ... tag holding the conditional value inside the given starttagname \$condvalue ... conditional value

### Output

XML content container / false on error

#### **Description**

CASE-Insensitive version (XML parser are always case-sensitive!)

<tagname>

<condtag>condvalue</condtag>

</tagname>

Deletes the whole xml content including <tagname>.

Wild card character "\*" can be used at begin and end of \$condvalue.

#### 7.12.13 setcontent

#### **Syntax**

setcontent (\$xmldata, \$startparenttagname, \$starttagname, \$contentnew, \$startcondtag="", \$condvalue="")

### Input parameters

\$xmldata ... XML content container

\$startparenttagname ... parent tag name

\$starttagname ... tag name of XML node for the new content

\$contentnew ... new XML node to be inserted

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

#### Output

XML content container / false on error

### Description

<parenttagname>

<condtag>condvalue</condtag>

<tagname>contentnew</tagname>

</parenttagname>

\$xmldata = data string to be parsed

\$startparenttagname = name of the tag that is a parent node of starttagname (necessary if condition has been set!)

\$starttagname = name of the tag (child node)

\$contentnew = the content that will be inserted between the child tags \$starttagname

\$startcondtag = child xml tag where condition will be set

\$condvalue = value of the condition

Wild card character "\*" can be used at begin and end of \$condvalue.

### 7.12.14 seticontent

# Syntax

seticontent (\$xmldata, \$startparenttagname, \$starttagname, \$contentnew, \$startcondtag, \$condvalue)

#### Input parameters

\$xmldata ... XML content container

\$startparenttagname ... parent tag name

\$starttagname ... tag name of XML node for the new content

\$contentnew ... new XML node to be inserted

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

### Output

XML content container / false on error

### **Description**

CASE-Insensitive version (XML parser are always case-sensitive!)

- <parenttagname>
- <condtag>condvalue</condtag>
- <tagname>contentnew</tagname>
- </parenttagname>

\$xmldata = data string to be parsed

\$startparenttagname = name of the tag that is the parent node of starttagname (necessary if condition has been set!)

\$starttagname = name of the tag (child node)

\$contentnew = the content that will be inserted between the child tags \$starttagname

\$startcondtag = child xml tag where condition will be set

\$condvalue = value of the condition

Wild card character "\*" can be used at begin and end of \$condvalue.

# 7.12.15 setcontent\_fast

#### **Syntax**

setcontent\_fast (\$xmldata, \$startparenttagname, \$starttagname, \$contentnew, \$startcondtag="", \$condvalue="")

# Input parameters

\$xmldata ... XML content container

\$startparenttagname ... parent tag name

\$starttagname ... tag name of XML node for the new content

\$contentnew ... new XML node to be inserted

\$startcondtag ... tag holding the conditional value inside the given starttagname

\$condvalue ... conditional value

#### Output

XML content container / false on error

#### Description

function designed for link management, extremely fast but with limitations (only CASE-Sensitive!)

- <parenttagname>
- <condtag>condvalue</condtag>
- <tagname>contentnew</tagname>
- </parenttagname>

\$xmldata = data string to be parsed

\$startparenttagname = name of the tag that is the parent node of starttagname (necessary if condition has been set!)

\$starttagname = name of the tag (child node)

\$contentnew = the content that will be inserted between the child tags \$starttagname

\$startcondtag = child xml tag where condition will be set

\$condvalue = value of the condition

Wild card character "\*" can be used at begin and end of \$condvalue.

# 7.12.16 updatecontent

#### Syntax

updatecontent (\$xmldata, \$xmlnode, \$xmlnodenew)

#### Input parameters

\$xmIdata ... XML content container \$xmInode ... XML node to be replaced \$xmInodenew ... new XML node

#### Output

XML content container / false on error

#### **Description**

Updates a given xml string \$xmlnode in \$xmldata with the content \$xmlnodenew. This method provides a faster way to update xml nodes when the node was selected before.

#### 7.12.17 insertcontent

### **Syntax**

insertcontent (\$xmldata, \$insertxmldata, \$starttagname)

#### Input parameters

\$xmIdata ... XML content container \$insertxmIdata ... XML node to be inserted in starttagname \$starttagname ... tag name of the parent XML node

#### Output

XML content container / false on error

### Description

<tagname> <- list start
.....
insertxmldata <- insertxmldata
</tagname> <- list end
.....</pre>

Inserts \$insertxmldata string at the end of all child between the parent \$tagname .

# 7.12.18 inserticontent

### **Syntax**

inserticontent (\$xmldata, \$insertxmldata, \$starttagname)

# Input parameters

\$xmldata ... XML content container \$insertxmldata ... XML node to be inserted in starttagname \$starttagname ... tag name of the parent XML node

#### Output

XML content container / false on error

#### **Description**

Inserts \$insertxmldata string at the end of all child between the parent \$tagname.

#### 7.12.19 addcontent

### **Syntax**

addcontent (\$xmldata, \$sub\_xmldata, \$startgrandtagname, \$startcondtag, \$condvalue, \$startparenttagname, \$starttagname, \$contentnew)

#### Input parameters

\$xmldata ... XML content container \$sub\_xmldata ... xml node to be inserted \$startgrandtagname ... grandparent tag name \$startcondtag ... tag holding the conditional value inside the given starttagname \$condvalue ... conditional value \$startparenttagname ... parent tag name \$starttagname ... tag name of XML node for the new content \$contentnew ... new XML node to be inserted

## Output

XML content container / false on error

# Description

```
<grandtagname>
<condtag>condvalue</condtag>
<parenttagname> <- list start</pre>
......
<tagname>contentnew</tagname> } <- sub_xmldata
</parenttagname> <- list end
</grandtagname>
$xmldata = data string to be parsed
$sub xmldata = xml node to be inserted
$startgrandtagname (optional) = name of the grand xml tag of parent xml tag where (article)
$startcondtag (optional) = xml tag inside the parent xml tags where condition will be set
$condvalue (optional) = value of the condition
$startparenttagname (optional) = name of the parent xml tag where the xml subschema
should be added (list)
$starttagname (optional) = name of the tag (child)
$contentnew (optional) = the content that will be inserted between the child tags
```

### 7.12.20 addicontent

#### Syntax

addicontent (\$xmldata, \$sub\_xmldata, \$startgrandtagname, \$startcondtag, \$condvalue, \$startparenttagname, \$starttagname, \$contentnew)

## Input parameters

\$xmldata ... XML content container \$sub\_xmldata ... xml node to be inserted \$startgrandtagname ... grandparent tag name \$startcondtag ... tag holding the conditional value inside the given starttagname \$condvalue ... conditional value \$startparenttagname ... parent tag name \$starttagname ... tag name of XML node for the new content \$contentnew ... new XML node to be inserted

### Output

XML content container / false on error

# **Description**

```
CASE-Insensitive version (XML parser are always case-sensitive!)
<grandtagname>
<condtag>condvalue</condtag>
<parenttagname> <- list start</pre>
......
......}
<tagname>contentnew</tagname> } <- sub_xmldata
.....}
</parenttagname> <- list end
</grandtagname>
$xmldata = data string to be parsed
$sub_xmldata = xml subschema to be inserted
$startgrandtagname (optional) = name of the grand xml tag of parent xml tag where (article)
$startcondtag (optional) = xml tag inside the parent xml tags where condition will be set
$condvalue (optional) = value of the condition
$startparenttagname (optional) = name of the parent xml tag where the xml subschema
should be added (list)
$starttagname (optional) = name of the tag (child)
$contentnew (optional) = the content that will be inserted between the child tags
```

# 7.13 Report API Functions

## 7.13.1 createreport

#### **Syntax**

createreport (\$report\_name)

# Input parameters

\$report\_name ... report name

## global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

### **Output**

result array

### Description

This function creates a new report

## 7.13.2 editreport

# **Syntax**

editreport (\$report\_name, \$config)

## Input parameters

\$report\_name ... report name \$config ... report configuration as array

# global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

### Output

result array

# Description

This function saves the configuration of a report.

## 7.13.3 loadreport

# **Syntax**

loadreport (\$report\_name)

### Input parameters

\$report\_name ... report name

### global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

### Output

result array / false

## Description

This function loads the report configuration file and provides the data as array.

# 7.13.4 deletereport

## Syntax

deletereport (\$report\_name)

# Input parameters

\$report\_name ... report name

### global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

### Output

result array

### Description

This function deletes a report

# 7.13.5 analyzeSQLselect

### **Syntax**

analyzeSQLselect (\$sql)

#### Input parameters

\$sql ... SQL statement as string

#### Output

result array

### Description

This function analyzes an SQL Select statement and return its parts in an array

## 7.13.6 showpiechart

### **Syntax**

showpiechart (\$title="", \$x\_title, \$x\_value, \$y\_title, \$y\_value, \$data\_array, \$width="100%", \$height="100%", \$id="hcmsPieChart", \$suffix="", \$loadAPI=true)

### Input parameters

\$title ... chart title

\$x\_title ... chart x-axis title

\$x\_value ... chart x-axis array key name holding the values

\$y\_title ... chart y-axis title

\$y\_value ... chart y-axis array key name holding the values

\$data\_array ... assoz. data array

\$width ... chart width in pixels (optional)

\$height ... chart height in pixels (optional)

\$id ... ID of chart (optional)

\$suffix ... function name suffix (optional)

\$loadAPI ... load Google Chart API [true, false] (optional)

#### global input parameters

\$mgmt\_config
\$hcms\_lang

\$lang

### **Output**

Google Chart code / false

### Description

This function creates the Google Chart Code for a pie chart. The Google Chart API need to be loaded first!

#### 7.13.7 showcolumnchart

#### **Syntax**

showcolumnchart (\$title="", \$x\_title, \$x\_value, \$y1\_title, \$y1\_value, \$y2\_title="", \$y2\_value="", \$y3\_title="", \$y3\_value="", \$data\_array, \$width="100%", \$height="100%", \$id="hcmsColumnChart", \$suffix="", \$loadAPI=true)

### Input parameters

\$title ... chart title

\$x\_title ... chart x-axis title

\$x\_value ... chart x-axis array key name holding the values

\$y1\_title ... chart y1-axis title

\$y1\_value ... chart y1-axis array key name holding the values

\$y2\_title ... chart y2-axis title

\$y2\_value ... chart y2-axis array key name holding the values

\$y3\_title ... chart y3-axis title

\$y3\_value ... chart y3-axis array key name holding the values \$data\_array ... assoz. data array \$width ... chart width in pixels (optional) \$height ... chart height in pixels (optional) \$id ... ID of chart (optional) \$suffix ... function name suffix (optional) \$loadAPI

### global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

### Output

Google Chart code / false

### **Description**

This function creates the Google Chart Code for a column chart. The Google Chart API need to be loaded first!

### 7.13.8 showtimelinechart

## **Syntax**

showtimelinechart (\$title="", \$y\_title, \$y\_value, \$x1\_title, \$x1\_value, \$x2\_title="", \$x2\_value="", \$data\_array, \$width="100%", \$height="100%", \$id="hcmsTimelineChart", \$suffix="", \$loadAPI=true)

### Input parameters

\$title ... chart title
\$y\_title ... chart y-axis title
\$y\_value ... chart y-axis array key name holding the values
\$x1\_title ... chart x1-axis title
\$x1\_value ... chart x1-axis array key name holding the values
\$x2\_title ... chart x2-axis title
\$x2\_value ... chart x2-axis array key name holding the values
\$x2\_value ... chart x2-axis array key name holding the values
\$data\_array ... assoz. data array
\$width ... chart width in pixels (optional)
\$height ... chart height in pixels (optional)
\$id ... ID of chart (optional)
\$suffix ... function name suffix (optional)
\$loadAPI ... load Google Chart API [true, false] (optional)

#### global input parameters

\$mgmt\_config \$hcms\_lang \$lang

#### Output

Google Chart code / false

### Description

This function creates the Google Chart Code for a timeline chart. The Google Chart API need to be loaded first!

## 7.13.9 showgeolocationchart

# **Syntax**

showgeolocationchart (\$title="", \$marker\_value, \$lat\_value, \$lng\_value, \$link\_value,

\$data\_array, \$width="100%", \$height="100%", \$id="hcmsGeolocationChart", \$suffix="", \$loadAPI=true)

### Input parameters

\$title ... chart title

\$marker\_value ... array key name holding the value for the marker title
\$lat\_value ... array key name holding the value for the latitude of the marker
\$lng\_value ... array key name holding the value for the longitude of the marker
\$link\_value ... array key name holding the value for the marker link
\$data\_array ... assoz. data array
\$width ... chart width in pixels (optional)
\$height ... chart height in pixels (optional)
\$id ... ID of chart (optional)
\$suffix ... function name suffix (optional)
\$loadAPI ... load Google Maps API [true, false] (optional)

### global input parameters

\$mgmt\_config \$hcms\_lang \$lang

### **Output**

Google Chart code / false

#### **Description**

This function creates the Google Maps Code for a geolocation chart. The Google Maps API need to be loaded first!

# 7.14 Project API Functions

### 7.14.1 createproject

### **Syntax**

createproject (\$subproject\_id=0, \$object\_id="", \$user, \$projectname, \$description="")

### Input parameters

\$subproject\_id ... ID of main project (only if the project is a subproject)
\$object\_id ... object ID or path to object (optional)
\$user ... user name of sub/project owner
\$projectname ... project name
\$description ... project description (optional)

# global input parameters

\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### **Output**

result array

### **Description**

This function creates a new project.

# 7.14.2 editproject

#### **Syntax**

editproject (\$project\_id, \$subproject\_id=0, \$object\_id="", \$user="", \$projectname="",

### \$description="")

### Input parameters

\$project\_id ... project ID
\$subproject\_id ... ID of main project (only if project is a subproject)
\$object\_id ... object ID or path to object (optional)
\$user ... user name of sub/project owner (optional)
\$projectname ... project name (optional)
\$description ... project description (optional)

## global input parameters

\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### **Output**

result array

### **Description**

This function saves data of an exitsing project

## 7.14.3 deleteproject

#### **Syntax**

deleteproject (\$project\_id)

## Input parameters

\$project\_id ... project ID or array of project IDs to be deleted

### global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

# Output

result array

### **Description**

This function removes projects.

## 7.14.4 getprojectstructure

### **Syntax**

getprojectstructure (\$project\_id)

## Input parameters

\$project\_id ... project ID

### global input parameters

\$mgmt\_config

### Output

assoziative result array / false

### Description

This function creates an assoziatve array presenting the project structure (project -> subprojects -> tasks)

# 7.14.5 showprojectrecord

### **Syntax**

showprojectrecord (\$project\_record, \$masterproject\_id)

### Input parameters

\$project\_record ... project record as array (project/subproject/task)
\$masterproject\_id ... ID of master project

### global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang
\$siteaccess
\$user\_array

### Output

html presentation of the record / false

#### **Description**

This function creates a table row for the projects presentation

# 7.14.6 showganttchart

## **Syntax**

showganttchart (\$title="", \$task\_title, \$task\_value, \$resource\_title="", \$resource\_value="", \$start\_title, \$start\_value, \$end\_title="", \$end\_value="", \$status\_title="", \$status\_value="", \$data\_array, \$width="100%", \$height="100%", \$id="hcmsTimelineChart", \$suffix="", \$loadAPI=true)

### Input parameters

\$title ... chart title \$task\_title ... task title \$task\_value ... task array key name holding the values \$resource\_title ... resouce title (optional) \$resource\_value ... resource array key name holding the values (optional) \$start\_title ... task start date title \$start\_value ... task start date array key name holding the values \$end\_title ... task finish date title \$end\_value ... task finish date array key name holding the values \$status\_title ... work status title (optional) \$status\_value ... work status array key name holding the values (optional) \$data\_array ... assoz. data array \$width ... chart width in pixels (optional) \$height ... chart height in pixels (optional) \$id ... ID of chart (optional) \$suffix ... function name suffix (optional) \$loadAPI ... load Google Chart API [true, false] (optional)

### global input parameters

\$mgmt\_config \$hcms\_lang \$lang

#### Output

Google Chart code / false

#### Description

This function creates the Google Chart Code for a Gantt chart. The Google Chart API need to be loaded first!

## 7.15 Task API Functions

### 7.15.1 createtask

### **Syntax**

createtask (\$site="", \$from\_user, \$from\_email="", \$to\_user, \$to\_email="", \$startdate="", \$finishdate="", \$category="", \$object\_id="", \$taskname, \$message="", \$sendmail=true, \$priority="low", \$project\_id=0, \$planned="")

### Input parameters

```
$site ... publication name (optional)
$from_user ... from_user name
$from_email ... from_email [email-address] (optional)
$to_user ... to_user name
$to_email ... to_email [email-address] (optional)
$startdate ... start date (optional)
$finishdate ... finish date (optional)
$category ... category [link, user, workflow] (optional)
$object_id ... object ID or object path
$taskname ... task name
$message ... message (optional)
$sendmail ... sendmail [true/false]
$priority ... priority [high, medium, low] (optional)
$project_id ... project/subproject ID if the task should be assigned to a project (optional)
$planned ... planned effort in taskunit (optional)
```

# global input parameters

\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### Output

result array

### Description

Creates a new user task and send optional e-mail to user.

Since verion 5.8.4 the data will be stored in RDBMS instead of XML files.

### 7.15.2 edittask

## **Syntax**

```
edittask ($task_id, $object_id="", $to_user="", $startdate="", $finishdate="", $taskname="", $message="", $sendmail=true, $priority="", $status="", $planned="", $actual="", $project_id=0)
```

```
Input parameters
$task_id ... task ID
$object_id ... object ID pr path to object (optional)
$to_user ... to_user name (optional)
$startdate ... start date (optional)
$finishdate ... finish date (optional)
$taskname ... name of task (optional)
$message ... task message/description (optional)
$sendmail ... sendmail [true/false]
```

\$priority ... priority [high, medium, low] (optional)
\$status ... status in percent [0-100] (optional)
\$planned ... planned effort in taskunit (optional)
\$actual ... actual effort in taskunit (optional)
\$project\_id ... project/subproject ID the task belongs to (optional)

### global input parameters

\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### Output

result array

### Description

Saves data of a user task and send optional e-mail to user. Since verion 5.8.4 the data will be stored in RDBMS instead of XML files.

# 7.15.3 deletetask

### **Syntax**

deletetask (\$task\_id)

# Input parameters

\$task\_id ... task ID or array of task IDs to be deleted

## global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

## Output

true/false

# Description

Deletes user tasks.

# 7.15.4 tasknotification

### **Syntax**

tasknotification (\$date)

## Input parameters

\$date ... date

# global input parameters

\$mgmt\_config
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### Output

true/false

### Description

Sends e-mail notifications to users if a task starts or ends on the given date.

# 7.16 Workflow API Functions

## 7.16.1 deleteworkflow

### **Syntax**

deleteworkflow (\$site, \$wf\_name, \$cat)

### Input parameters

\$site ... publication name
\$wf\_name ... worfklow name
\$cat ... category [man, script]

## global input parameters

\$user \$eventsystem \$mgmt\_config \$hcms\_lang \$lang

#### Output

result array

### **Description**

This function deletes a workflow.

### 7.16.2 buildworkflow

### **Syntax**

buildworkflow (\$workflow\_data)

### Input parameters

\$workflow\_data ... workflow [2 dim. Array]

### Output

workflow item

# 7.16.3 workflowaccept

#### **Syntax**

workflowaccept (\$site, \$location, \$object, \$workflow, \$item\_id, \$user, \$message, \$sendmail=true, \$priority="medium")

# Input parameters

\$site ... publication name [string] \$location ... location name [string] \$object ... object name [string] \$workflow ... workflow [XML-string] \$item\_id ... item id [string] \$user ... user name [string] \$message ... task message [string] \$sendmail ... sendmail [true, false] \$priority ... priority [high, medium, low]

# global input parameters

\$mgmt\_config \$hcms\_lang\_codepage \$hcms\_lang

### \$lang

### Output

workflow [XML-string]/false

# 7.16.4 acceptobject

### **Syntax**

acceptobject (\$site, \$location, \$object, \$item\_id, \$user, \$message, \$sendmail, \$priority="medium")

### Input parameters

\$site ... publication name [string]
\$location ... location name [string]
\$object ... object name [string]
\$item\_id ... workflow item id [string]
\$user ... user name [string]
\$message ... task message [string]
\$sendmail ... sendmail [true, false]
\$priority ... priority [high, medium, low]

## global input parameters

\$mgmt\_config
\$contentfile
\$hcms\_lang\_codepage
\$hcms\_lang
\$lang

### Output

array/false

## 7.16.5 workflowreject

# **Syntax**

workflowreject (\$site, \$location, \$object, \$workflow, \$item\_id, \$user, \$message, \$sendmail, \$priority="medium")

### Input parameters

\$site ... publication name [string] \$location ... location name [string] \$object ... object name [string] \$workflow ... workflow [XML-string] \$item\_id ... workflow item id [string] \$user ... user name [string] \$message ... task message [string] \$sendmail ... send mail [true, false] \$priority ... priority[high, medium, low]

#### global input parameters

\$mgmt\_config
\$hcms\_lang
\$lang

### Output

workflow [XML-string]/false

# 7.16.6 rejectobject

### **Syntax**

rejectobject (\$site, \$location, \$object, \$item\_id, \$user, \$message, \$sendmail, \$priority="medium")

### Input parameters

\$site ... publication name [string] \$location ... location name [string] \$object ... object name [string] \$item\_id ... workflow item id [string] \$user ... user name [string] \$message ... task message [string] \$sendmail ... send mail [true, false] \$priority ... priority[high, medium, low]

### global input parameters

\$mgmt\_config \$contentfile \$hcms\_lang \$lang

### **Output**

array/false

# 7.17 Cloud Storage API Functions

# 7.17.1 loadcloudobject

#### **Syntax**

loadcloudobject (\$site, \$location, \$file, \$user="", \$save=true, \$directoutput=false)

### Input parameters

\$site ... publication name \$location ... media file location \$file ... media file name \$user ... user name (optional)

\$save ... save file in local media repository or return content as result [true, false] (optional) \$directoutput ... direct output of the streamed content [true, false] (optional)

### global input parameters

\$mgmt\_config

### **Output**

data / false on error

#### Description

This functions load/streams an object/file from the cloud storage and saves it the local media repository on request

# 7.17.2 savecloudobject

### **Syntax**

savecloudobject (\$site, \$location, \$file, \$user="")

### Input parameters

\$site ... publication name

\$location ... media file location \$file ... media file name \$user ... user name (optional)

## global input parameters

\$mgmt\_config

### **Output**

true / false on error

## Description

This function saves an object/file in the cloud storage if no daily cloud snyc has been defined, see main configuration setting \$mgmt\_config['storage\_dailycloudsnyc']

## 7.17.3 copycloudobject

### **Syntax**

copycloudobject (\$site, \$location, \$file\_old, \$file\_new, \$user="")

### Input parameters

\$site ... publication name \$location ... media file location \$file\_old ... source media file name \$file\_new ... destination media file name \$user ... user name (optional)

### global input parameters

\$mgmt\_config

#### **Output**

true / false on error

### **Description**

This functions renames an object/file in the cloud storage

## 7.17.4 renamecloudobject

### **Syntax**

renamecloudobject (\$site, \$location, \$file\_old, \$file\_new, \$user="")

### Input parameters

\$site ... publication name \$location ... media file location \$file\_old ... old media file name \$file\_new ... new media file name \$user ... user name (optional)

### global input parameters

\$mgmt\_config

#### Output

true / false on error

### **Description**

This functions renames an object/file in the cloud storage

# 7.17.5 deletecloudobject

### **Syntax**

deletecloudobject (\$site, \$location, \$file, \$user="")

### Input parameters

\$site ... publication name \$location ... media file location \$file ... media file name \$user ... user name (optional)

### global input parameters

\$mgmt\_config

### **Output**

true / false on error

### **Description**

This function deletes an object/file and its data from the cloud storage

# 7.17.6 synccloudobjects

## **Syntax**

synccloudobjects (\$user="")

### Input parameters

\$user ... user name (optional)

### global input parameters

\$mgmt\_config

#### Output

true / false on error

#### **Description**

This function snychronizes all local objects/files with the cloud storage. See also main configuration settings \$mgmt\_config['storage\_dailycloudsnyc'] and \$mgmt\_config['storage\_type'].

# 7.18 Import/Export API Functions

# 7.18.1 exportobjects

# **Syntax**

exportobjects ()

# Input parameters

## global input parameters

\$mgmt\_config

#### **Output**

true / false

### **Description**

Executes the export job.

# 7.18.2 importobjects

# Syntax

importobjects ()

# Input parameters

# global input parameters

\$mgmt\_config

# Output

true / false

# Description

Executes the import job.

# 8 Legal reference / flag

# 8.1 Questions and suggestions

For advanced questions and suggestions, please contact the support. We are available for every question regarding our reseller- and partner-program. You can apply for an access to our enhanced Online-Demo of the hyper Content & Digital Asset Management Servers via our support.

### hyperCMS Support:

support@hypercms.com http://www.hypercms.com

# 8.2 Imprint

Responsible for the content:

hyperCMS Content Management Solutions GmbH Rembrandtstr. 35/6 A-1020 Vienna – Austria

office@hypercms.com http://www.hypercms.com

# 8.3 Legal information

The present product information is based on the version of the program, which was available at the time the document was composed.

The maker reserves the rights of modifications and corrections of the program. Errors and misapprehension accepted.

© 2018 by hyperCMS Content Management Solutions