hyper
☐ Content & Digital Asset Management Server
☐ CMS

Version 7.0 Installation Guide

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### 1 Introduction

The hyper Content & Digital Asset Management Server will be installed on a web server. For the installation on the server you well need an FTP-Client or SCP-Client if you don't have direct access to the file system of the server. The FTP-Client is used for the transfer of the hyperCMS files to your destination server.

After the file transfer some directories and files need special file permissions on UNIX systems. So hyperCMS is allowed to write files on your server.

All additional configuration can be done using the graphical user interface of hyperCMS. To perform a successful installation of hyperCMS you should have basic knowledge about the operating system and web server you use.

Please notice the basic layers of your system and their dependencies in the order the installation and configuration of those software packages have to be done:

- 1. Operating System (e.g. Linux)
- 2. Web server (e.g. Apache)
- 3. Database (e.g. MySQL)
- 4. hyper Content & Digital Asset Management Server

# 2 Prerequisites

# The following technical prerequisites must be fullfilled before installing hyperCMS:

On server-side:

- Operating System: Linux, UNIX-Derivates, MS Windows (is not recommended when used as fully featured DAM system) in latest version if possible
- WebServer: Apache 2+, Iplanet or MS IIS with PHP 5.3+ modul
- RDBMS (Database): MySQL 5+ (required for the standard installation routine), any database with ODBC support (not supported by the standard installation routine)
- The following free software packages should be installed for full Digital Asset Management (DAM) support:
  - FFMPEG (converting video and audio files)
  - YAMDI (meta data injection into FLV files)
  - ImageMagick (converting images)
  - o XPDF (indexing of PDF-documents)
  - o ANTIWORD (indexing older Word-documents)
  - ZIP/UNZIP (packing and unpacking of files)
  - UNOCONV (converting office files)
  - EXIFTOOL (reading meta data of files)
  - TESSERACT (optical character recognition / OCR)

#### On client-side:

• Internet Explorer, Firefox, Chrome, Safari, as well as Opera can be used as browser, favored in the last version. hyperCMS is 100% browser based, so no additional client software is required.

# 3 hyperCMS architecture

The hyper Content & Digital Asset Management Server is based on the language PHP5 and other software packages. hyperCMS will be delivered in source code. To operate hyperCMS you will need a web server that support PHP5 or a higher version. More details about PHP are available at: <a href="http://www.php.net">http://www.php.net</a>.

The source code will be compiled automatically through the PHP hypertext preprocessor on the server-side. A compilation of the source code is therefore not necessary. You will have the possibility to access and adopt the source code without recompiling it. please keep in mind that changes in the source code could have a deep impact on the functionality of the content management system. Please notice the support agreement.

hyperCMS requires a MYSQL or ODBC database. Some information will be saved directly in the file system. Where those files will reside can be partly defined by yourself. The hyper Content & Digital Asset Management Server consists besides program files of an internal repository and an external repository. Where those repositories will be located can be defined by you. What is important to notice is, that a repository must be available on one server only. Where the program files can be deployed on more servers if you use load balancing in clustered server nodes.

The internal repository will be usually named "data". That you will find in your installation package.

The external repository will be usually named "repository" and is also part of the software package.



All settings of the system are stored in the main configuration file "hypercms/config config.inc.php". All parameters can be changed any time, for instance to disable language packages, enable or change load balancing and so on. The explanations of the various settings are provided in the file.

# The internal repository (data) is the central data storage and has the following structure:

Data of checked-out objects, favorites checkout Configurations config content Content-Repository customer Personalization data eventsystem **Event System** export **Export directory** 🃗 import Import directory Idap\_connect LDAP Connectivity Profile link Link Management database log Media information media Session data session Temporary directory 📗 temp Templates li template Data of Users and Groups user Workflows workflow Master Workflows workflow\_master

You won't find more details here. Manual changes in the repository can destroy the data storage!

#### The external repository (repository) has the following structure:

Component Component repository

config Publication configuration

link Link indexing

media\_cnt Content media

media\_tpl Template media

search Search engine

This repository consists of files which have relevance for the Publications, such as components, publication configuration settings, link management and media files.

#### 3.1 Instances

hyperCMS can be set up for multiple instances. This is strongly recommend if you have a shared hosting environment with different customers and you want the data to be strictly separated from each other. This gives you more flexibility, since each customer uses its own database as well as internal and external repository.

Keep in mind that instances should not be used if you want the inherit templates and content from one to another publication.

For security reasons you should separate the data and setup the restrictions in the web servers hosts accordingly. Automating the creation of instances, all necessary steps to setup a secure environment should be done by experts.

The full support for instances is included in the Enterprise Edition of the system by providing a management interface for multiple instances.

In order to use instances an path to the configuration directory of the instances need to be provided. If a distributed system is used the path need to direct to a central server, wehere all system nodes can access the configurations.

To enable instances, the path need to be set only once in the main configuration file "hypercms/config/config.inc.php":

\$mgmt\_config['instances'] = "/server/instance\_configuration/";

## 3.2 Load balancing

The hyper Content & Digital Asset Management Server supports load balancing for tasks like for file upload, storing content and rendering files. This is especially useful for batch processing of image, video and audio files that might lead to high workload.

To enable load balancing the system need to be installed on several physical servers. Make sure that all servers store the files in the same central repository ("data" and "repository") and use the same database. Therefore a central file storage (e.g. NAS or SAN) and a central database server is required. Please provide the information to this resources during the installation procedure.

You and can change the settings in the main configuration file "hypercms/config/config.inc.php" at any time, see:

```
// URL and absolute path to the external repository on your webserver
// Used for the storage of external content management information
$mgmt_config['url_path_rep'] = ...
$mgmt_config['abs_path_rep'] = ...
// URL and absolute path to the internal repository on your webserver
// Used for the storage of internal content management information
$mgmt_config['url_path_data'] = ...
$mgmt_config['abs_path_data'] = ...
```

Please install the software on the main server using the installation routine. For all other server use can copy the files in the directory "hypercms" to ensure the same settings on all servers. Please change the settings \$mgmt\_config['url\_path\_cms'] and \$mgmt\_config['abs\_path\_cms'] in the main configuration file "hypercms/config/config.inc.php" of the local installation.

Before a server can distribute the load to others, it must be configured for load balancing. This must be set manually after installation and can be done in the main configuration file "hyperCMS/config/config.inc.php".

For example, the activate the load distribution to 2 additional servers, configure the array in the main configuration as follows:

```
$mgmt_config['url_path_service'][1] = "http://server1/hypercms/service/";
$mgmt_config['url_path_service'][2] = "http://server2/hypercms/service/";
```

You can also define on an array of resources for additional servers. Keep in mind that no resource may be used twice, since it will lead to an infinite loop, which would be interpreted as a CSRF attack by the system and the user will be logged out from the system.

## 3.3 Operation in a server cluster

The hyper Content & Digital Asset Management Server can be operated in a server cluster. This will improve the operational availability and performance because of the distributed system.

Per CPU core you can have a work load of approximately 15 concurrent user, that can be handled by one management server. This results for example to 15 \* 8 = 120 concurrent user for one CPU with 8 cores.

A third party load balancer can be used for the load distribution. The system supports a server-wide session handling that comes as part of the system's own load balancing. In order to use a third party load balancer you need to enable a transparent session ID in php.ini (see 5.1) and enable session synchronization in the main configuration of the system.

// Enable writing of session data for third party load balancers in order to enable session synchronization

\$mgmt\_config['writesessiondata'] = true;

The software will be installed on several management servers which will be connected to a central internal and external repository server and a database server. The web publications together with the external repository can be distributed on webservers. The architecture can be as followed:



## 3.4 Cloud Storage Support

The Enterprise Edition of the system supports the storage of multimedia files in a cloud storage (e.g. AWS S3). In order to use a cloud storage, some settings need to be set in the main configuration. The system can save data immediately or delayed (once a day) in order to reduce the data traffic between the cloud storage and the system. This also helps to reduce the costs for data traffic that might be charged by the cloud service provider.

Later on you can use the publication management to define if the the cloud storage, the storage of the local repository or both should be used.

```
// ----- Cloud storage settings -----
// ATTENTION: The following settings only applies for the Enterprise Edition!
// If you are using AWS S3 or Google Cloud as media repository, the system will save all
media files
// using the SDK client of the cloud service provider.
// Please note, that you need a cloud service account with your cloud service provider.
// In order to connect with the cloud service you need provide the credentials for the
cloud service.
//
// For AWS S3 use:
// Provide credentials for access
$mgmt_config['aws_access_key_id'] = "";
$mgmt_config['aws_secret_access_key'] = "";
// Provide region code, see also:
http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-
zones.html#concepts-available-regions
$mgmt_config['aws_region'] = "";
// Provide the name of your AWS S3 bucket
$mgmt_config['aws_bucket'] = "";
// For Google Cloud Platform use:
// Provide credentials for access
// $mgmt_config['gs_client_id'] = "";
// $mgmt_config['gs_client_secret'] = "";
// Provide region code, see also: https://cloud.google.com/compute/docs/zones
// $mgmt_config['gs_region'] = "";
// Provide the name of your AWS S3 bucket
// $mgmt_config['gs_bucket'] = "";
// Define daily synchronization for delayed saving of media files in cloud storage (true) or
save media files immediately (false)
// If the daily synchronization has been enabled the media files will not be saved in the
cloud storage immediately!
$mgmt_config['storage_dailycloudsnyc'] = false;
```

## 3.5 hyperCMS Modi

The hyper Content & Digital Asset Management Server can be operated in different modes. There is the operating mode of the "virtual server" and of the "server". The difference lies in the number of websites or publications and some functions. hyperCMS in virtual server mode is prepared to handle one website. With the server mode however, the content management server can operate several websites. Thus you can administer several publications with one installation of hyperCMS. With the server mode each individual publication is treated completely detached by others. Which modes you may use depends on the license agreement and the delivered software of the hyper Content Management Servers.

# 4 Configuration of the webserver

For detailed information about the installation of PHP on different web servers please visit http://www.php.net.

Never mind what web server you will use, it must be prepared to handle all files with the extension ".php" and pass them to the PHP hypertext pre-processor for parsing, compiling and execution. This can be set on any web server, for instance in the configuration file of Apache "http.conf" or in MS IIS directly through the properties of a website/host. More details you will find in the description of your web server.

An important security setting is to restrict the access to certain directories for PHP scripts. For this purpose, the setting "php\_admin\_value open\_basedir" need to be set, usually in the virtual host of the web server.

This ensures that PHP scripts can only access files, where access is required.

If you use multiple hyperCMS instances, the internal and external repository of an instance should be placed in a defined location inside a separate virtual host. Access to files should be limited to the files in the virtual host and not outside of the scope of the host.

# 5 hyperCMS and PHP

hyperCMS runs only on PHP version 5 or higher versions. We recommend to run PHP as a server modul (not as CGI version). The binary distribution of PHP can be downloaded for free on <a href="http://www.php.net">http://www.php.net</a>

An installation guide for PHP is included in the distribution, but is also available on the PHP website.

We recommend to use only official PHP distributions to guarantee the full functionality.

## 5.1 Configurations in php.ini

To operate hyperCMS you will need PHP as a server module on UNIX derivates or MS Windows. You can find more details about "php.ini" on http://www.php.net.

The configuration file of PHP "php.ini" holds configuration which are important for the operation of hyperCMS. In order to operate hperCMS as Digital Asset Management system, a few parameters need to be set.

#### The following parameters of php.ini should be defined:

```
short_open_tag = Off
output_buffering = Off
safe_mode = Off
disable functions =
passthru,shell_exec,show_source,phpinfo,system,proc_open,chgrp,chown,chmod,symlink
,show_source,dl,php_uname,posix_kill,posix_mkfifo,posix_mknod,posix_setegid,posix_se
teuid,posix_setqid,posix_setpqid,posix_setsid,posix_setuid,posix_ttyname
expose_php = Off
max_execution_time = 21600
memory_limit = 3072M
error_reporting = E_ALL & ~E_DEPRECATED
display_errors = Off
error_log = /var/log/php5/error.log
register_globals = Off
register_long_arrays = Off
post max size = 6000M
upload_max_filesize = 6000M
session.cookie_httponly = 1
session.gc_maxlifetime = 21600
```

# For the load distribution via an upstream third party load balancer another setting in php.ini must be taken:

Managing the session ID as an extra transparent parameter in the URL. The extra URL parameter contains the session ID value with a default name of "PHPSESSID". This "PHPSESSID" parameter will be automatically inserted into all links in the HTTP response.

```
session.use_trans_sid = 1
```

## 6 Installation

The installation package of the hyper Content & Digital Asset Management Server consists of a compressed file that includes the software as well as the manuals. You will need Adobe Acrobat Reader to open the manuals. This software can be downloaded for free, please visit <a href="http://www.adobe.com">http://www.adobe.com</a>.

This compressed file need to be transferred to the web root of the web server and the content of the file need to be extracted there. You can also extract the compressed file locally and copy all files to the web server, e.g. using FTP.

## 6.1 Easy installation

The installation of the system is quite simple. After placing all the hyperCMS files directly in the root directory of the web server, please assign write permissions to the following directories:

- hypercms/config
- data
- repository
- mypublication

Now call to the following URL: http(s)://www.youromain.com/hypercms/
This starts the installation process and takes you to a form that asks you for all the data necessary for the installation. The installer guides you through the installation process and forwards you to the logon form of the system after the successful installation.

Installation of hyperCMS Version 5.7.7				
hyperCMS Administrator Account				
You will need this account to log in to the sy	You will need this account to log in to the system after installation.			
User name:	admin			
Password:				
Confirm password:				
Name:				
E-mail:				
Language:	English ▼			
MySQL Database				
Please make sure that a database with the	same name does not already exist.			
Database host:				
Database user name:				
Database password:				
Database name:				
SMTP/Mail Server				
Please provide a valid SMTP host for features like task management, workflow management, send mail-links and others.				
SMTP host:				
SMTP user name:				
SMTP password:				
SMTP port:	25			
SMTP sender (e-mail address):				
Operating System				
Please specify the operating system.				
Operating system:	UNIX / Linux ▼			
Additional Software				
of hyperCMS, additional software packages The following settings provide typical examp executables on Linux, if available. Please ad	In order to use the full set of Digital Asset Management features of hyperCMS, additional software packages are required. The following settings provide typical examples of pathes to the executables on Linux, if available. Please adopt them if not suitable. Attention: The open_basedir restriction might effect the check for executables.			
Define path to XPDF (pdftotext):	/usr/bin/pdftotext			
Define path to AntiWord (antiword):	/usr/bin/antiword			

## 6.2 Installation and configuration for advanced users

The installation and configuration of the system can be done or changed any time manually as well. Open the file "hypercms/config/config.inc.php" in the config directory of hyperCMS in a text editor. This file holds all the main settings. The explanations of the various settings are located in the file itself.

Some settings include specifying absolute paths of the hyperCMS installation as well as the URL's. If you do not know the document root directory of the web server, please ask the server's administrator for the exact path.

After all hyperCMS files are placed on your web server, you must assign write permissions to directories and files on UNIX systems. Even under Windows, this step is necessary so that the files can be written to certain directories.

It is important that all files in the internal and external repositories can also be written by the content management server (web server user). This also applies to the temp folder in the hyperCMS directory.

After hyperCMS is installed on your server, a directory for your publication (website) must be created. In this directory all generated pages will be saved. You can create this directory anywhere within your document root on the web server. It is recommended to create a directory that presents the name of your website. Do you operate hyperCMS in server mode, you must repeat this process for any other publication/website.

**Please note:** Do not use the same publication directory for multiple websites. If you do so, the user of another publication can access the pages as well.

On the presentation server the files "livelink.inc.php", "livelink.inc.jsp" or "livelink.inc.asp" need to be placed in case of an activated link management. These files contain the function for the active link management of the hyper Content & Digital Asset Management Server under various applications.

The files themselves are located in your installation directory hyperCMS "hypercms/function" . Therefore you need to copy them in the "config" directory of the external repository for PHP.

Are you using JSP, the file "livelink.inc.jsp" must be present in any web application root. With ASP, a virtual directory named "include" in the IIS (Web server) need to be set up, where the file "livelink.inc.asp" is stored centrally for all publications.

Using ASP please take care that the virtual directory "include" is accessible to both the site and the repository.

The specific settings for your website are saved in the files "Publication.conf.php" in the internal repository and also in the file "Publication.ini" of the external repository. In case you use JSP, the settings are saved in the file "Publication.properties" of the external repository. These files can be found in the "config" directory of the internal and external repository.

Set the values of the individual parameters according to established directories or circumstances. Explanations can be found for each parameter in the file itself

## 6.3 Setting up automated tasks

hyperCMS needs to perform automated tasks. Therefore you need to create scheduled Cron Jobs when using Linux/UNIX or automated tasks if using MS Windows.

## The files which need to be executed regularly are located in hypercms/job:

daily.php .... needs to be executed daily (e.g. midnight) minutely.php ... needs to be executed every minute

Please take care that the Webserver User is executing these tasks.

Example for the Cron Jobs entries to execute the tasks:

\* \* \* \* \* cd /home/hypercms/public\_html/hypercms/job; /usr/bin/php -f minutely.php 30 1 \* \* \* cd /home/hypercms/public\_html/hypercms/job; /usr/bin/php -f daily.php

## 6.4 Content encryption on server

The system allows the content on the server to be encrypted. This can be set for each Publication, see Adminstrators Guide.

The key used for encryption can be stored in the main configuration file on the server for each installation or instance. There are 2 keys, one for the encryption of temporary data and one for the encryption of files and data (based on AES 256).

In addition, the key can also be provided via an external resource.

#### In case of an externally provided key, please note the following:

- The connection to the external key provider should be encrypted
- The provider of the key should have a protective mechanism that allows the delivery of the keys only to the system
- If the key is lost or changed, the existing content can no longer be decrypted

A simple approach would be the transfer of the key from the key server to the server, on which the system is running, via HTTPS. For the simplest access restriction method, the key server uses an IP restriction, that way only the server on which the system is running can query the key.

# This would be defined in the file main configuration file of the system "hyperCMS/config/config.inc.php" as follows:

\$mgmt\_config['aes256\_key'] = file\_get\_contents ('https://key-servername/mykey.key');

#### Furthermore, 3 encryption strengths are available:

// Encryption strength (weak, standard, strong)
\$mgmt\_config['crypt\_level'] = "standard";

This is a general setting for various encryption algorithms for temporary data in the system. For the files or their content itself, however, always "strong" encryption will be used regardless of the setting made.

#### **Encryption Algorithms:**

Strong ... AES 256 (based on OpenSSL with fallback to Mcrypt in CBC mode) Standard ... Mcrypt in EBC mode (Electronic Codebook)

Weak ... The main purpose is to gain a short encrypted string, not recommended for sensitive data or files!

### 7 First time Start

Call the address in your browser you defined in the file "hypercms/config/config.inc.php" as the root for the content management system, e.g.:

http(s)://www.yourdomain.com/hypercms/

Now you should see the hyperCMS logon mask in your browser. If hyperCMS can not be started and you receive an error message from the web server, please double check your settings (especially path information).

The further procedure is described in the hyperCMS guides. Here you will find all further information for further setup of your the system.

# 8 Using WebDAV

Web-based Distributed Authoring and Versioning, or WebDAV, is a set of extensions to the Hypertext Transfer Protocol (HTTP) that allows computer-users to edit and manage files collaboratively on remote World Wide Web servers.

The WebDAV protocol allows interactivity, making the Web a readable and writable medium. It allows users to create, change and move documents on a remote server (typically a web server or "web share"). This has obvious uses when authoring the documents that a web server serves, but it can also be used for storing files on the web, so that the files can be accessed from anywhere.

The hyper Content & Digital Management Server supports WebDAV native to access all multimedia files via mounted drive.

#### 8.1.1 WebDAV issues when using Windows Vista and Windows 7

#### Mounting a WebFolders fails:

It may happen that mounting a WebFolders on Vista fails with the error message "The folder name is not valid" or something like that. One reason for this may be that the BasicAuthLevel in the Vista configuration is either not configured or with too low a value. This is an entry in the registry under the following path:

 $HKEY\_LOCAL\_MACHINE \ SYSTEM \ Current Control Set \ Services \ WebClient \ Parameters$ 

Start the Registry Editor with the command "regedit".

In the registry editor go to the above path and set the BasicAuthLevel to the value 2. If BasicAuthLevel ia not available, right-click the mouse in the right pane, then click on New and DWORD (32-bit). The new entry must be called BasicAuthLevel and should have the value 2. Then restart the PC so that the entry are also active.

#### The WebDAV connection is very slow:

Instructions for improving the WebDAV Performance:

- In Internet Explorer, open the Tools menu, then click Internet Options.
- Select the Connections tab.
- Click the LAN Settings button.
- Uncheck the "Automatically detect settings" box.
- Click OK.

#### 8.1.2 WebDAV issues when using Mac OS Finder

You may encounter a few problems when using the WebDAV feature in Finder.

A WebDAV connected drive may operate extremely slow on some Mac operating systems. Newer Mac operating systems seems to be faster. The reason new Mac operating systems are faster is that they are better at caching small operations. The Mac integrates the WebDAV feature in the file system and many applications such as Finder create an enormous amount of file system operations. If not cached by the WebDAV client in the Mac operating system, these requests will be sent to the server, thus slowing down the WebDAV connection.

- You can speed up the Finder by performing the following operations.
   Open terminal and prevent .DS\_Store file creation on network volumes: defaults write com.apple.desktopservices DSDontWriteNetworkStores true
- For any network connected drive, in Finder: uncheck "Show icon preview" option for Column view and disable "Show item info" in icon view

#### Non English characters not working

Finder seems to have a problem with UTF-8 encoded characters mixed with spaces. You should avoid using non English characters in folder names and file names together with space characters. Alternatively, use the free Cyberduck Mac WebDAV client which does not have any problems with UTF-8 encoding. Please note that Cyberduck does not integrate with the file system; thus you will not be able to work with files directly on the server. You must first copy the files to your local file system before you can work on the files.

### 9 Permalinks

A Permalink (of permanent and hyperlink, also permanent link) in the World Wide Web is a permanent identifier in the form of an URL. A permalink references to a certain content available permanently and primarily via this URL.

When a permalink, or more permalinks in case of multiple languages in one page, is used in a template in order to save the permalink, the navigation/sitemap (function shownavigation) can use the permalinks instead of the paths in the file system for the defintion of the pages URL.

In the install directory is a folder called "rewrite". This folder includes the necessary files for the URL rewriting for the Apache web server.

Copy these files have to the root directory of the website. The index.php needs tob e setup with the values for the publication:

```
// publication name
$site = "hyperCMS";

// text ID array (text-ID as key and URL paramaters as value)
$text_id = array (
"PermaLink_EN"=>"langcode=EN",
"PermaLink_DE"=>"langcode=DE"
);

// alternative URI on error
$alt_uri = "/home/";
```

The array \$text\_id presents the ID of the field prepared for the permalink and ist reference to the GET parameter for the multilanguage support.

If no multilingualism is used, the value "langcode = XX" can be left blank.

### 10Taxonomies

A taxonomy or classification scheme is a uniform, hierarchical model, for the classification of objects.

The system provides a standard taxonomy in several languages. However, it can be modified for each publication in order to create an individual taxonomy.

The taxonomy definition files are located in data/include and have the following naming scheme:

Publication.Language-code.taxonomy.dat

These are simple text files that can be opened and edited using any text editor that supports the character encoding UTF-8.

When creating a new taxonomy, the structure of the content in the file is important. The top level of the terms uses no tab stop, each additional sub-level must be provided with tab stops for structuring, see the file default.en.taxonomy.dat:

```
type
       abstract
             background
              graphic
              wallpaper
       adventure
       animal
             animal themes
       architecture
             architecture and buildings
             built structure
       background
       business
       candid
       copy space
       concept
       close-up
       education
              learning
       fashion
       finance
              banking
              forecasting
              investment
              planning
```

If the taxonomy is needed in other languages, a new file need to be created for each language. Please use the proper 2-digit language abbreviation in the file name. It is important that the structure or number of lines of each language version is absolutely identical, since the line number is used as identification of the same concept in different languages.

If changes in a taxonomy file have been made, the system will read the content in the next execution of the daily job. If you want to read the data immediately, please run the script in the systems directory job/daily.php or call the system API command/function createtaxonomy().

# 11Legal reference / flag

# 11.1 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 Management Servers via our support.

#### hyperCMS Support:

support@hypercms.com http://www.hypercms.com

## 11.2 Imprint

Responsible for the content:

hyperCMS Content Management Solutions GmbH Rembrandtstr. 35/6 A-1020 Vienna – Austria

office@hypercms.com http://www.hypercms.com

## 11.3 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.

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