

Documentum Content Server OEM Edition – Getting Started



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Session Objective

Help you get started with Content Server OEM Edition

- Understand the differences between the standard Content Server and Content Server OEM Edition
- Identify when to use Content Server OEM Edition
- Provide some tips for using Content Server OEM Edition

Agenda

- About Blue Fish
- Introduction to Content Server OEM Edition
- Technical Details
- Experiences

About Blue Fish

Focused on ECM

We help companies manage and extract value from their intellectual assets

Experience

In our 8th year of solving difficult content management problems

Expertise

Expertise across the Documentum platform; host the dm_developer community

Client Centric

"Be Smart, Be Nice, Get Things Done"



Blue Fish ECM Practices

Web Content Management

- Focus on empowering business users
- Attention to ease of use, standardization, and consistency



Custom ECM Solutions and Integrations

- Focus on unleashing clients' unique competitive advantages
- Attention to supportability and upgradeability



Content Migrations

- Focus on retaining value of intellectual assets
- Attention to migration of regulatory docs in validated environments



Information Access

- Focus on helping clients access and analyze their most critical information
- Attention to top-line business improvements



Blue Fish ECM Software

Web Content Management

- Focus on empowering business users
- Attention to ease of use, standardization, and consistency

Navigation Manager for Web Publisher

- Enables business users to manage website navigation

Custom ECM Solutions and Integrations

- Focus on unleashing clients' unique competitive advantages
- Attention to supportability and upgradeability

Bedrock

- Reusable code library
- Enables rapid, high quality solutions

Content Migrations

- Focus on retaining value of intellectual assets
- Attention to migration of regulatory docs in validated environments

DIXI and Migration Workbench

- For full spectrum of migration challenges

Information Access

- Focus on helping clients access and analyze their most critical information
- Attention to top-line business improvements

Documentum Adapter

- Enterprise and inter-application information access

Blue Fish Experience with Content Server OEM Edition

- CoreKnowledge: Knowledge management for natural resources exploration
 - DFC-based application
 - Ported from standard Content Server to reach a larger audience
- “Client project X”: Image acquisition and processing solution
 - DFC- and WDK-based application
 - Built specifically for Content Server OEM Edition



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OEM Edition – What Is It?

- A single install package that includes:
 - Content Server
 - Database (Sybase)
 - Full-text indexer (Apache Lucene)
- Enables ISVs to embed Content Server in stand-alone software applications
 - Previously known as the Embedded Content Server
- Essentially the same product as the standard Content Server...
 - ...with a handful of notable differences!

Value Proposition

- Instead of developing custom purpose-built content management systems, OEMs can now leverage Documentum's best-of-breed technology
 - Better time to market
 - Leverage proven technology
 - Potential cost savings

Key Features

- Bundled components: a database and full-text indexer
- Silent installer
 - One installer for Content Server, database, and full-text indexer
 - Enables simple, silent installation of the server as a prerequisite for the embedding application
- Simplified configuration
- Flexible licensing
 - Negotiated on a case-by-case basis with the OEM sales team
 - Intended to expand

What's Different?

- No bundled Webtop, DA, DAI, DAB
 - Embedding installer must install WDK and other components as necessary
- Only one content repository (a.k.a. docbase) is available per embedded-server installation
- Scaling specifications:
 - Repository sized for 10M objects over the life of the application
 - Tuned for peak hour ingestion of 5K objects per hour
 - Typical application life estimated at 5 years

What's Different? (continued)

- Uses Apache Lucene instead of FAST for full-text indexing
 - Does not support (the deprecated) *SEARCH TOPIC* DQL syntax
 - Does not support zone searching
 - Does not support chunked XML documents
 - Does not support grammatical normalization
 - Wildcard searches do not match results with spaces
 - Currently only supports English; Latin-1 language support being added in SP5

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What's Installed?

- Content Server and related processes
 - Sybase ASE
 - ACS Server
 - Dmbasic Method Server
 - Java Method Server
- Connection Broker
 - Previously called “Docbroker”
- Repository
 - Previously called “docbase”
 - Configured as a BOF global registry
- Lucene full-text search engine
- DFC

(Re)Distribution

- Distributed as a one-file archive
 - ZIP for Windows
 - TAR for Linux
- Simplifies packaging into “host application” install package
 - Documentum Content Server can essentially be installed as
- Installed via silent installer
- Redistributed installation via “embedding installer”
 - This is the installer that installs the host application

The Silent Installer

- Replaces multiple interactive installers for database, Content Server, DFC, and full-text indexer
- Installation parameters are passed on the command line and via configuration XML
 - Parameters are typically gathered by the embedding installer
- Silent installer can optionally install DocApps
 - Facilitates installation of doctypes, repository content, BOFs, etc.

Silent Installer Example

- Command line:

```
oemwinSuiteSetup.exe
  -silent
  -target
    programDir="c:\Program Files\Documentum"
    userDir="c:\Documentum"
  -passwords
    databaseAdmin=dbaPassword
    docbaseOwner=ownerPassword
    windowsInstallOwner=installOwnerPassword
    globalRegistryUser=globalRegUserPassword
  -oemConfig
    file="c:\temp\config.xml"
```

Silent Installer Example (continued)

- Configuration file:

```
<dctmOemInstall version="1.0">
  <database serverName="name" port="port" />
  <docbroker port="port" />
  <docbase id="id" name="name">
    <emailNotification smtpHost="name"
      installOwnerEmail="email" />
  </docbase>
  <javaMethodServer httpPort="port" shutdownPort="port" />
  <indexAgent httpPort="port" shutdownPort="port" />
  <docApps>
    <!--optional-->
    <docApp name="DocAppName">
      <description>DocAppDescription</description>
      <archiveDir>PathtoArchive</archiveDir>
      <logDir>PathtoLogDirectory</logDir>
    </docApp>
  </docApps>
</dctmOemInstall>
```

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Installation

- Disk Space
 - Be aware of disk space requirements
 - 15 GB on the install drive
 - 3 GB on the drive hosting your system's "temp" directory
- Environment Variables (DOCUMENTUM, DOCUMENTUM_SHARED, DM_HOME)
 - These standard Documentum environment variables must **not** be defined before installation
 - These environment variables are removed upon uninstallation
 - Make sure the embedding installer does not directly depend on them!
- Speed
 - Because many components are installing at once, the install can take a long time

Database

- Applications must be compatible with Sybase ASE-15 DB:
 - 2000-character max size for character fields
- Database parameters may not be changed prior to installation
 - May be changed after installation by editing Sybase config file
 - May require a database restart
 - Complicates automated tuning of database parameters at install time
 - May impact ability to install DocApps via the silent installer

Starting and Stopping Services

- Services can be started and stopped individually...
 - Sybase database
 - Startup: Sybase `startsrv` program
 - Shutdown: `isql shutdown` command
 - **DO NOT** use the Windows service facilities!
 - Documentum Index Agent
 - Startup: Windows services (Windows) or `startupIndexAgent.sh` (Linux)
 - Shutdown: `shutdownIndexAgent.bat` (Windows) or `shutdownIndexAgent.sh` (Linux)
 - Content Server
 - Can be restarted using the “Documentum Server Manager” tool
 - Program icons not installed by default
- ...or all at once
 - Using the Windows service facilities on the “Documentum Content Server OEM Edition” service
 - Using the `dctmStartFullServer.sh` and `dctmStopFullServer.sh` scripts in Linux

Other Hints

- You can disable Lucene
 - Saves considerable CPU resources when full-text capabilities are not needed
- Modify Windows services recovery settings
 - Set “First Failure” and “Second Failure” to “Restart the Service”
- You may need to update job schedules
 - The silent installer creates a number of dm_job objects
 - A custom DocApp can be used to modify the job schedules
- Don't forget the Documentum command-line tools
 - In the absence of Webtop, iDQL and iAPI are lifesavers!
 - Located in the %DM_HOME%/bin/ directory
- Use the EMC system sizing spreadsheet
 - <http://developer.emc.com/developer/tippage.htm#0900c35580c80147>

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