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#####
# IBM Content Manager OnDemand for z/OS V9.5.0 #
# README #
# May 4, 2018 #
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The OnDemand for z/OS home page can be reached at:  
<http://www.ibm.com/software/data/ondemand/390>  
From there you can navigate to the product support page by clicking the Support link on the left hand side of the page. The support page provides many links to helpful product information and the ability to search the support site.

This README file can be found at the following technote link. It will contain the most recent updates to this file.

<http://www.ibm.com/support/docview.wss?uid=swg27043898>

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## ===== OnDemand Server, Database and DB2 Topics (REQUIREMENTS AND UPGRADING) -----

### <OnDemand for z/OS V9.5.0 Prerequisites>

- z/OS 1.13
- DB2 Version 10.1
- ODWEK Java API's/Servlet/Linedata applet - Java 1.7

All the listed versions are the minimum version - all later versions to the minimum are considered to be supported.

### <Upgrading from V8.5.0 to V9.5.0>

Customers upgrading to OnDemand for z/OS V9.5.0 from OnDemand for z/OS V8.5.0 will need to perform the following actions for each server being upgraded to OnDemand V9.5.0.

#### DATABASE UPGRADE STEP

Upgrading customers will need to perform the following steps before accessing the existing OnDemand V8.5.0 database using OnDemand V9.5.0. Customers will need to have a database backup and recovery plan implemented prior to performing this procedure.

1. If ODF is installed, use the ODF monitor to ensure there are no distributions processing. The upgrade involves dropping and creating the ODF operational tables.
2. Stop all OnDemand activity on databases being upgraded to V9.5.0.
3. Customize and execute the ARSTSPCE and ARSTSPCF members of SARSINST to create the additional tablespaces added in v9.5.0.
4. Backup the OnDemand Database or make sure a current backup is available.
5. With a writable directory as the current working directory, run the following commands located in the /usr/lpp/ars/V9R5M0/bin directory for each OnDemand server instance being upgraded to OnDemand V9.5.0:  
(Note that receiving a -551 sqlcode when dropping a nonexistent index is normal.)

Note: In the list of tables ( ARSAGPERMS ARSANN ARSAPP ARSAPPUSR ARSNAMEQ ARSPRTOPTS ARSSYS ARSDFBDT), if ODF is not installed, ARSDFBDT should be removed from the list.

- 1) Run "arsdb -I <instance\_name> -vx ARSAGPERMS ARSANN ARSAPP ARSAPPUSR ARSNAMEQ ARSPRTOPTS ARSSYS ARSDFBDT" to export the tables.
- 2) Run "arsdb -I <instance\_name> -vd ARSAGPERMS ARSANN ARSAPP ARSAPPUSR ARSNAMEQ ARSPRTOPTS ARSSYS ARSDFBDT" to drop the tables.
- 3) Run the sample job to drop the tablespaces (ARSDTSPC – optional)
- 4) Run the sample job to re-create the tablespaces (ARSCTSPC – optional)
- 5) Run "arsdb -I <instance\_name> -vrt ARSAGPERMS ARSANN ARSAPP ARSAPPUSR ARSNAMEQ ARSPRTOPTS ARSSYS ARSDFBDT" to create the tables.
- 6) Run "arsdb -I <instance\_name> -vi ARSAGPERMS ARSANN ARSAPP ARSAPPUSR ARSNAMEQ ARSPRTOPTS ARSSYS ARSDFBDT" to import the tables.
- 7) If ODF is installed, run "arsdb -I <instance\_name> -vd ARSDFDRT ARSDFDST ARSDFPPT" to drop the ODF operational tables.

- 8) If ODF is installed, “arsdb -I <instance\_name> -vrt ARSDFDRT ARSDFDST ARSDFPPT” to create the ODF operational tables.
- 9) Run “arsdb -I <instance\_name> -vu” to perform additional table updates.
- 10) Update the System Log and System Load definitions to support the new date formats.

- This is optional, the old date formats are still supported. If you have not already updated the System Log and System Load to take advantage of the new date support, you can run the following commands.

To update the System Log Application Group and Folder  
 arssyscr [-I <OD\_INSTANCE>] -I -u  
 To update the System Load Application Group and Folder  
 arssyscr [-I <OD\_INSTANCE>] -a -u

To display the new date, date/time formats, you must use one of the V9 or later clients. This includes, but is not limited to, the Windows Client, ODWEK CGI/Servlet/Java APIs, CICS, etc. **Once this is done, older V8.5 Clients will not be able to display the newer date format for those Application Groups.**

For more information please read the WBTS Technote 7036188 - "Content Manager OnDemand V9.0 new date types for Date, Date/Time and Date/Time(TZ)" available by going to <http://support.ibm.com> and searching on the Technote number.

- 11) Run “arsdb -I <instance\_name> -efv” drop the indexes.
- 12) Run “arsdb -I <instance\_name> -rv” recreate the indexes.
- 13) Run “arsdb -I <instance\_name> -mv” run maintenance and update statistics.

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<end Upgrading from V8.5.0 to V9.5.0>

## <Upgrading from V9.0.0 to V9.5.0>

Customers upgrading to OnDemand for z/OS V9.5.0 from OnDemand for z/OS V9.0.0 will need to perform the following actions for each server being upgraded to OnDemand V9.5.0.

### DATABASE UPGRADE STEP

Upgrading customers will need to perform the following steps before accessing the existing OnDemand V9.0.0 database using OnDemand V9.5.0. Customers will need to have a database backup and recovery plan implemented prior to performing this procedure.

1. If ODF is installed, use the ODF monitor to ensure there are no distributions processing. The upgrade involves dropping and creating the ODF operational tables.
2. Stop all OnDemand activity on databases being upgraded to V9.5.0.
3. Customize and execute the ARSTSPCF member of SARSINST to create the additional tablespaces added in v9.5.0.
4. Backup the OnDemand Database or make sure a current backup is available.
5. With a writable directory as the current working directory, run the following commands located in the /usr/lpp/ars/V9R5M0/bin directory for each OnDemand server instance being upgraded to OnDemand V9.5.0: (Note that receiving a -551 sqlcode when dropping a nonexistent index is normal.)
  - 1) If ODF is installed, run "arsdb -I <instance\_name> -vx ARSDFBDT" to export the table.
  - 2) If ODF is installed, run "arsdb -I <instance\_name> -vd ARSDFBDT" to drop the table.
  - 3) If ODF is installed, run “arsdb -I <instance\_name> -vrt ARSDFBDT” to create the table.
  - 4) If ODF is installed, run “arsdb -I <instance\_name> -vi ARSDFBDT” to import the table.
  - 5) If ODF is installed, run "arsdb -I <instance\_name> -vd ARSDFDRT ARSDFDST ARSDFPPT" to drop the ODF

- operational tables.
- 6) If ODF is installed, “arsdb -I <instance\_name> -vrt ARSDFDRT ARSDFDST ARSDFPPT” to create the ODF operational tables.
  - 7) Run “arsdb -I <instance\_name> -vu” to perform additional table updates.
  - 8) Run “arsdb -I <instance\_name> -efv” drop the indexes.
  - 9) Run “arsdb -I <instance\_name> -rv” recreate the indexes.
  - 10) Run “arsdb -I <instance\_name> -mv” run maintenance and update statistics.

<end Upgrading from V9.0.0 to V9.5.0>

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**\* Upgrade all OnDemand object servers**

When upgrading the Content Manager OnDemand Server to the current version, you will need to upgrade any Object Servers and any servers used for remotely loading data to the same version as well. You will also need to upgrade the Windows Administrator Client to at least the same level as the Server.

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**\* Backup your database and configuration files**

Before Installing OnDemand 9.5.0, you should backup your database and make sure you have a copy of the currently installed version of OnDemand. You should backup your configuration files also.

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**\* Recompile exits**

It is always recommended to recompile the Content Manager OnDemand Server User exits on a new release. If using the ARSUSEC exit, a recompile is required.

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**\* Changed exits**

If using the OS/390 indexer exits, the call to arsz390i\_fopen has changed from 3 parameters to 4 parameters. Include SARSLOAD(ARSZ390F) instead of SARSLOAD(ARSZ390I) on the link-edit of the exit if you wish to continue using the 3-parameter call.

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**OnDemand Server, Database and DB2 Topics (NEW FEATURES)**

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New command: ARSXLIN

The command ARSXLIN has been added. It converts line data to either UTF-8 or PDF.

New command: ARSXAFP

This command used to be named arsvview. It converts AFP to UTF-8.

Ability to load thru ODWEK

Prior to Content Manager OnDemand Web Enablement Kit (ODWEK) Java API V9.5, the only API that allowed documents to be added to the Content Manager OnDemand (CMOD) archive was the ODFolder.storeDocument API, which resulted in an archive request to the CMOD server for each document.

In ODWEK V9.5, new APIs have been introduced to allow documents to be loaded in bulk, similar to the ARSLOAD command. To accomplish this using the ODWEK Java API, perform the following:

- (1) Call the ODServer.loadInit API to initiate the load process.

- (2) For each document to load, call the ODServer.loadAddDoc API, passing the number of pages, a Hashtable of index values to store, and the document data.
- (3) Call the ODServer.loadCommit API, specifying the application group and application to send the load data and load request to the CMOD server.

#### XML Indexing

IBM Content Manager OnDemand V9.5 now provides a new data type of XML and an XML Indexer, integrated with arslload.

The XML Indexer allows indexing using XML for storage of XML and non XML documents.

A Generic XML index file format allows for specifying the indexes for any data type to be stored into IBM Content Manager OnDemand.

The storage and retrieval of resources is also provided.

#### New language support

Support has been added for the Russian and Turkish languages.

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### OnDemand Server, Database and DB2 Topics (ENHANCEMENTS)

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#### OnDemand Distribution Facility

ODF has been enhanced to run on all OnDemand for Multiplatform and z/OS Servers  
Changes to z/OS

- ARSRMAIN is replaced by ARSODF with -S parameter
- ARSRDFGO is replaced by ARSODF with -r and -d parameters
- ARSBDIST is replaced by ARSODF with -e -d and -r parameters
- ARSRDCLN is replaced by ARSMAINT
- COBOL exit interface and location has changed. Customized exits will need to be updated to use copybook ARSODFCX located in ARS.ARSV950.SARSINST
- Recompile and link user exits to exits directory using the sample jcl in ARSODFCX
- Email customization exits replaced by java program ODFProcessDist.class
- Location Spool changed to Print
- Location Dataset changed to File
- Location E-Mail Document changed to E-Mail
- Method Time of Super Bundle has been deprecated, existing distributions will be handled like Time of Day.

#### New Features

- Transform output to UTF8 or PDF
- Notify by E-mail option available for all locations
- Notify by E-mail with location value of None - recipient is notified that report has been loaded into OnDemand, the report is not distributed
- File location can be an hfs file
- The OnDemand Monitor Graphical User Interface replaces the ODF ISPF interface

Allow multiple language folder, cabinet, hold names/descriptions

Multiple language support for name and description fields for Folders, Cabinets

and Holds. These fields can have values specified in 26 different languages.

#### Administrative Client enhancements

##### Report Wizard enhancements

- Create application, application group, and folder without using graphical indexer
- Ability to use any supported indexer and data type
- New indexer and data type for XML data added (V9.5 servers only)
- Option to enable Full Text Index support in the application group and add Full Text Index fields to the folder
- Option to add a Document Size field and a Page Count field to the application group and folder

##### Multiple language support for names and descriptions in 26 different languages

- Folder names and descriptions
- Cabinet names and descriptions
- Hold names and descriptions

##### Application enhancements

- Added XML as an indexer type and a data type

#### OS/390 Indexer enhancements

##### FIELDn parameter

- Support for BASE=TRIGGER

##### Additional ARSLOAD messages

- ARS5481I messages show actual indexing parameters used

##### Large Object Support

- INDEXOBJ=ALL no longer required to enable Large Object Support

##### LINEOFFSET new indexing parameter

- Used to determine whether to consider carriage control characters when counting number of offset records from TRIGGER lines.
- ASREAD - default value, do not consider carriage control characters
- ASPRINTED - count lines taking carriage control into consideration

## ===== Client Topics

### ----- Enhancements

#### Normalize PDF Viewing for both native PDF and user defined PDF

- Will attempt to use Adobe Acrobat first
- If not found, will then use Adobe Reader

#### Multiple Client Version Support

- For V9.5 and future versions
- Can have multiple versions of the client on the same work station

#### Added support for retrieval of the XML data type

- Windows client will open the XML document externally using Windows file type associations.

#### New toolbar icons for "Next Page" and "Last Page" functionality

### Client/Server Compatibility

- The IBM Content Manager OnDemand Server V9.5 no longer supports Clients prior to V8.5. This includes, but is not limited to, the Windows Client, ODWEK CGI/Servlet/Java APIs, CICS, etc. Please ensure the clients used to access your IBM Content Manager OnDemand server are at currently supported levels.
- The IBM Content Manager OnDemand V9.5 Server will only accept requests coming

from an 8.5.0.0 or newer client.

- The IBM Content Manager OnDemand V9.5 Server will only accept administration requests from the Windows Administrator or ARSXML at the V9.5 level.
- IBM Content Manager OnDemand V9.5 Clients (Windows, ODWEK, etc) will work against any V8.5 or later server.
- The IBM Content Manager OnDemand V9.5 ARSXML will work against any V8.5 server or later.
- The IBM Content Manager OnDemand V9.5 Windows Administrator will work against any V8.5 server or later.

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Web Enablement Kit (ODWEK) Topics  
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### Java API enhancements

#### \* Locale object

New APIs to support setting the language/locale using a `java.util.Locale` object

-`ODConfig.setLocale()`

Can be called immediately after constructing an `ODConfig` object but before calling `ODServer.Initialize`

-`ODServer.getLocale()`

Returns a `Locale` object

-`ODServer.setLocale()`

To change the `Locale` to a different `Locale` than the one specified when the `ODServer` was initialized

New APIs have been added for returning the mapped National Language Support(NLS)name/description for the locale the `ODServer` is running in for the following:

-Folder Name

`ODFolder.getName()`

-Folder Field Name

`ODCriteria.getName()`

-Cabinet Name

`ODCabinet.getName()`

-Hold Name

`ODHold.getName()`

If no language mapping exists, the object name used to create the object is returned

#### \* String AutoFind

New APIs added to allow the **AutoFind** functionality in the Java Line Data Viewer Applet to be leveraged using the APIs.

A user can enter a search value in a Text Search, Full Text Index Search, or a Transaction type Folder Field to generate a hit list.

When the user selects a hit from the hit list, the applet is launched. The applet then attempts to:

- Search the line data for the value used in the search
- Open to the page containing that value
- Highlight the found search value

This is accomplished using the following two new APIs:

- ODFolder.setSearchInfoForAutofind
- ODHit.buildAutoFindStrForHit

**\* JLDV Overstrike**

The JLDV Applet now supports the Overstrike setting as specified in the Logical View definition.

**\* Reminder to clear cache and temp**

Before using the latest version of the Web Enablement Kit CGI/Servlet, you must delete all of the files from the Web Enablement Kit cache and temp directories. The directories are specified by the CACHEDIR and TEMPDIR directives in the arswww.ini file.

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Miscellaneous Topics  
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**\* Deprecated Items**

- Tivoli Storage Manager (TSM) (will need to use an OD/MP Object Server)
- PDF Indexer (must be run on OD/MP)
- AFP2WEB Service (must be purchased from third party or leverage other vendors)

**\* z/OS 2.3**

For ODF customers upgrading to z/OS 2.3, ODF connects to an SMTP server to send emails. On z/OS that SMTP server functionality can be provided by SMTPD. With z/OS 2.3, the SMTPD functionality has been removed. If you had configured ODF to use the SMTPD on z/OS, you will need to configure ODF to use an SMTP server on another operating system platform, such as Linux on System Z. Please note that CSSMTP is not an SMTP server and cannot be used as one.

**\* Using separately priced features**

In order to use any IBM Content Manager OnDemand Separately Priced Feature, you must now install the appropriate feature. The install images for Enhanced Retention Management, OnDemand Distribution Facility, and Full Text Search are available through ShopZ.

**\* Online Resources: Where to find documentation**



**Knowledge Center**

<http://www.ibm.com/support/knowledgecenter/>

**Product system requirements**

<http://www.ibm.com/support/docview.wss?uid=swg27043163>

**Compatibility matrix for the Content Manger OnDemand client and servers**

<http://www.ibm.com/support/docview.wss?rs=152&uid=swg21392275>

**Information Roadmap**

<http://www.ibm.com/support/docview.wss?rs=152&uid=swg27009157>

**Product overview**

[www.ibm.com/software/products/ondemand](http://www.ibm.com/software/products/ondemand)

**OnDemand User Group**

<http://www.odusergroup.org>

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