



Image Services

Release Content Description

Release 4.0 DB2 Edition

9844117-001

June 2004

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About This Manual

Scope

This document describes the new features in FileNet Image Services (IS) Release 4.0 DB2 Edition, as well as features added since the release of Image Services 4.0.0 SP1 and not documented previously. Image Services 4.0 DB2 Edition software is comprised of the following products:

- Image Services for AIX/6000
- Image Services for HP-UX
- Image Services for the Solaris Operating Environment
- Image Services for Windows Server

Refer to the following documents for contents of the Image Services 4.0.0 and 4.0 SP1 releases:

Image Services Release 4.0.0 Content Description 9844093-001
Image Services Release 4.0 SP1 Content Description 9844106-001

Refer to the *Image Services Toolkit Release 4.0 DB2 Edition Content Description* (9844120-001) for the Image Services Toolkit content. This document is released on the Image Services DB2 Edition Toolkit CD.

Procedures, Guides, and Handbooks

The following new manual is designed specifically for DB2 users:

Guidelines for Installing and Configuring IBM DB2 Software

The procedures, guides, and handbooks listed below contain additional material regarding Release 4.0 DB2 Edition features. These documents, as well as the DB2 guidelines, are included on the documentation CD released with Image Services 4.0 DB2 Edition.

IS Activity Logging

IS COLD Handbook

IS CSAR Procedures and Guidelines

IS Enterprise Backup and Restore

IS Index and WorkFlo Database Contents

IS Installation and Configuration Procedures for AIX/6000

IS Installation and Configuration Procedures for HP-UX

IS Installation and Configuration Procedures for the Solaris

Operating Environment

IS Installation and Configuration Procedures for Windows Server

IS MSAR Procedures and Guidelines

IS Multi-Committal and Cross-Committal Configuration Handbook

IS SNMP Reference Manual

IS System Administrator's Companion for UNIX

IS System Administrator's Companion for Windows

IS System Administrator's Handbook

IS System Messages Handbook

IS System Reference Guide

IS System Configuration Overview

[IS System Tools Reference Manual](#)

[IS Windows Application Server Install Procedures for UNIX Systems](#)

[System Information Messenger](#)

Education

FileNet provides various forms of instruction. Please visit the Global Learning Services in FileNet's Service & Support area at www.filenet.com.

Comments and Suggestions

FileNet invites all customers to communicate with the Documentation group on any question or comment related to FileNet manuals and online help. Send email to:

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We will make every effort to respond within one week. Your suggestions help us improve the products we deliver.

Feature Summary

Image Services (IS) Release 4.0 DB2 Edition includes the following features:

- Support for IBM DB2.
- Single document storage and retrieval for standard file systems (to be post-qualified).
- Qualification of the LSI 22802 SCSI adapter.
- Qualification of various operating system patch releases.

In addition, this document references features associated with the Image Services 4.0 SP2, Remote Admin Console, Release 4.0.20.

Note that Image Services 4.0 DB2 Edition and Image Services 4.0 SP2 contain the same release contents. The differences are in how they are installed. Image Services 4.0 DB2 Edition is designed for fresh installs using the IBM DB2 RDBMS only. Image Services 4.0 SP2 must be used in conjunction with Image Services 4.0.0. (Image Services 4.0 SP2 may also be an upgrade from Image Services 4.0 SP1.) Image Services 4.0 SP2 is designed for upgrades using an Oracle or Microsoft SQL Server RDBMS only.

If you wish to convert an existing index database from Oracle or Microsoft SQL Server to IBM DB2, please contact your FileNet representative.

The **“Image Services 4.0 DB2 Edition RCI Summary” on page 10** includes a list of Release Content Items (RCIs) included in Image Services 4.0 DB2 Edition. These enhancements are described in more detail in the main section of this document.

Some features listed in this document will be post-qualified. Check the CSS Web site for notification of successful qualification.

To review the changes that affect a particular software subsystem, see **“List of Enhancements by Subsystem” on page 31**.

Image Services 4.0 DB2 Edition RCI Summary

The following list summarizes the enhancements made to the FileNet Image Services software in this release. The RCIs are listed in numerical order.

Certain Image Services 4.0 DB2 Edition RCIs are NOT included in this list and/or documented in this Release Content Description. These RCIs fall in one of the following categories:

- RCIs for internal features, such as test scripts, that are not released to the field.
- RCIs for internal interfaces to other FileNet products.
- RCIs for preliminary work on features that will not be implemented until a future release.

RCIs Implemented in Image Services 4.0 DB2 Edition

RCI Number	Description	See Page
1703	Release German translated resource files and error message text.	<u>23</u>
2041	Release French translated resource files.	<u>24</u>
2219	Support XVT DSC for C Release 5.1 with Image Services for the Solaris Operating Environment.	<u>21</u>
2830	Support IBM DB2.	<u>12</u>
2940	Support operating systems and compilers for IS Toolkit	<u>30</u>
2941	Support Image Services and Image Services Toolkit combinations.	<u>30</u>
3010	Expand support for Single Document Storage (SDS) file system retrieval (post-GA).	<u>19</u>
3025	Qualify LSI 22802 dual-port SCSI host adapter.	<u>22</u>
3027	Test Solaris 9 12/03 release.	<u>27</u>
3036	Test HP-UX 11i Diagnostics and Test Patch Bundle Dec 2003 (post-GA).	<u>26</u>
3047	Release Remote Admin Console for IS 4.0 SP2/DB2.	<u>29</u>
3049	Test HP-UX 11i Diagnostics and Test Patch Bundle Mar 2004 (post-GA).	<u>26</u>
3052	Test AIX 5.2-03 Maintenance Level (post-GA).	<u>25</u>

Enhancement Descriptions

Databases

IBM DB2

RCIs: 2830

SCRs: 182789, 182799, 183498, 183507, 183901, 183902, 183953, 184320, 184321, 184326, 184327, 186226, 186543, 187225, 187229, 187233, 187241, 187240, 194984, 194991(Database Maintenance)

185838 (Database Management)

187296, 187301 (Document Services)

186884 (Enterprise Backup Restore)

181446, 181451, 181419, 181463, 181464, 182110, 182111, 182810, 182823, 183175, 183523, 183176, 183551, 183547, 183880, 183886, 183888, 183889, 183903, 183977, 184312, 184314, 184315, 184777, 184791, 184799, 185461, 185460, 185456, 185468, 185491, 185820, 185835, 186190, 186197, 186544, 186567, 186903, 187242, 187661, 194977, 195724 (Generic Database)

186195, 186194, 186208, 186210, 186219, 186556, 187237, 189229, 189602, 189605, 189616, 189624 (Index Services)

186553, 186558, 186905, 187667 (InstallShield Multiplatform)

184773, 184774, 185117, 185126, 187305, 187632, 187633, 188889, 188893, 188894, 188895, 193251, 193252, 193257, 193258, 195000, 195006, 195011, 195015, 195692, 195693, 195695 (Localized Files)

186216 (Performance Analysis)

180704, 182777 (Security Administration Application)
180685, 180684, 181410, 181439, 181438, 181435 181434,
181458, 182045, 182048, 182773, 182809, 183911, 183912,
185484, 185857, 187235 (Security Services)
177978, 184303, 184304, 187652 (Setup Tools)
180668, 180749, 180751, 180682, 181416, 181455, 181755,
182774, 182784, 182804, 182793, 182796, 182807, 182782,
182794, 182785, 183166, 183499, 183172, 183506, 183895,
183906, 183908, 183905, 183930, 183931, 183932, 183959,
184307, 184308, 184322, 184333, 184645, 185472, 185821,
185822, 185834, 185851, 185853, 185861, 185864, 185865,
186220, 186898, 186900, 187263, 187265, 187297, 187298,
187304, 194995, 195002, 195003, 195004, 195005, 195727,
196389 (System Configuration Tools)
183939, 183938, 184318, 184319, 184325, 184324, 185470,
193824, 194993 (SystemV Applications Executive)
180750, 181453, 181488, 182779, 182783, 182818 182811,
182821, 183910, 183947, 183961, 184311, 185457, 187294,
187663 (SystemV Miscellaneous)
184297, 184299, 184310, 184313, 184788, 185129, 185816,
185817, 185818, 185814, 185819, 185837, 186212, 187221,
187266, 187665 (WorkFlo Queue Services)
185803, 185815 (XVT Portable Toolkit)

Implementation: All platforms.

Overview

Image Services now allows you to set up your index database on a remote AIX server running the IBM DB2 RDBMS. Although your root/index server can be running on any supported Image Services

platform, your index database **MUST** be running AIX and **MUST** be located remotely from the root/index server.

Image Services does not support DB2 with clustering.

At this time DB2 is supported only for new Image Services installations. If you would like to convert an existing Images Services system from another RDBMS to DB2, please contact your FileNet representative.

For additional DB2 installation and configuration information, refer to the new document: [***Guidelines for Installing and Configuring IBM DB2 Software***](#).

Implementation

The Generic Database (GDB) subsystem provides the interface connecting Image Services with a Relational Database Management System (RDBMS). DB2-specific code is included in the new GDBD abstract, just as Oracle-specific code is included in the GDBO abstract and Microsoft SQL Server-specific code is included in the GDBM abstract.

GDB_logon calls CDBD_logon to connect to the DB2 database. In addition GDB_logon initializes the GDB function table, which points to an array of GDBD functions.

The native IBM DB2 Call Level Interface (CLI) acts as the API for most functions. However, DB2 Administrative APIs are used to execute administrative functions not provided by CLI.

Security Changes

DB2 requires user IDs at both the operating system and database levels. In contrast, Oracle and SQL Server require user IDs at only the database level. To meet DB2 requirements and allow passwords to be changed when required by the OS, the only database users supported by this release are f_sw, f_maint, f_sqi, and f_open.

A new Server Connect (Xdb2connect) option has been added to the Xapex menu. This option assists administrators in changing passwords for the supported users.

Installation Changes

In other enhancements, the installation process for Image Services 4.0 DB2 Edition creates the following files:

/fnsw/db2 (UNIX)
/fnsw/local/db2 (UNIX)

or

\FNSW\DB2 (Windows)
\FNSW_LOC\DB2 (Windows)

You set the permissions on these directories using fn_setup (UNIX) or the fn_perm utility (Windows).

The AIX install scripts for Image Services 4.0 DB2 Edition no longer create an Oracle user or add the Oracle user to the dba group.

System Configuration Tool Changes

A number of changes have been made to System Configuration Tools, for example to make DB2 information visible through `fn_edit`.

You are now asked for passwords for the `f_sw`, `f_maint`, `f_sqi`, and `f_open` users when `fn_edit` is launched for the first time.

The new `fn_db2` tool supports DB2.

The new `fndb2` library manages the reading of passwords from a flat file and writing them to the file. `GDBD`, `Xdb2connect`, and `fn_util` are all clients of the new `fndb2` library. The `edlib` library implements the encoding and decoding DB2 passwords.

The `fn_build` utility creates and populates two new files to support DB2:

```
/fnsw/local/sd/rdbtype.glob  
/fnsw/local/sd/db2.glob
```

The `rdbtype.glob` file contains the string identifying the RDBMS:

```
oracle  
mssql  
db2
```

The `db2.glob` file contains the password expiration policy in days, administrator notification time in days, and the encrypted passwords for each of the four users: `f_sw`, `f_maint`, `f_sqi`, and `f_open`. The encrypted passwords are also stored in:

```
/fnsw/local/sd/db2up.bin
```


The `fn_util` utility determines which database is being used. Just as `fn_util` calls `fn_oracle` or `fn_mssql`, it can now call the new `fn_db2` application to handle commands such as `stop`, `start`, or `init` when a DB2 RDBMS is being used.

Similarly, `fn_setup` now recognizes DB2 and will not prompt for `uid`, `gid`, or `sid`, since DB2 does not require these values.

WorkFlo Queue Services Changes

The following workflow queue functions and tools now work with DB2:

- WQSI
- wqs_table_gen
- WQS_move_q
- WQS_tool
- WQS_create_view

Index Services Changes

Several Index Services tools have been updated for DB2, including:

- dclview
- enlarge_ncol
- ixdb_stat

Export/Import Changes

GDB_exim now supports export and import for DB2 databases.

What's Not Supported

The following tools are NOT supported for DB2 in this release:

- set_f_maint_pw
- spacerpt
- fndba
- get_rdbms
- WQS_conv_sec
- WQS_conv_index
- WQS_conv_exist311
- wflupgrade311
- wflupgrade28
- WQMpack

Enterprise Backup Restore (EBR) does not support backup and restore for a remote DB2 index database. However, you can back up and restore MKF databases with EBR in this release.

Document and OSAR Services

Single Document Storage (SDS)

RCIs: 3010

SCRs: 197829, 197832, 197833, 197834, 197828, 198532 (OSAR Services)

Implementation: All platforms, to be post-qualified.

Image Services is being enhanced to allow you more storage options. The Image Services 4.0 SP1 Centera Storage and Retrieval (CSAR) feature provided easier access to Centera storage devices. This release will allow you access to more storage systems that recognize single documents stored in standard file systems, for example, storage systems from Network Appliance.

The FileNet Professional Services Near Line Storage (NLS) archive program is used to store documents in the file system. The NLS.cfg WorkingDirectory specifies the target file system.

In Image Services, a new single document storage (SDS) worker, SDS_FS_reader, supports document retrievals from a specified file system. SDS_FS_reader finds the WorkingDirectory in the sds_conf file in the directory:

```
/fnsw/local/sd/1 (UNIX)  
<drive>:\fnsw_loc\sd\1 (Windows)
```

The existing DOC_tool SDSinfo command has been enhanced to provide information on SDS File System storage as well as CSAR.

After the SDS File System feature has been qualified, refer to the *SDS File System Storage and Retrieval Procedures and Guidelines* document on the FileNet CSS web site for additional information.

Graphical User Interface

XVT Release for Solaris 8

RCIs: 2219

SCRs: 187305, 187632, 187633 (Localized Files)
158658, 158659, 159196, 159296 (Server Control/
Management)
158643, 158673, 159186, 159187 (SystemV Miscellaneous)
158315, 158631, 158635, 158651, 158655, 158656,
158657, 158849, 159175, 159184, 159188, 159189,
159191, 159192, 159193, 159245, 159280, 159281,
159260, 159294, 185856 (XVT Portable Toolkit)

Implementation: Image Services for the Solaris Operating
Environment

Graphical user interface (GUI) applications within Image Services are compiled using XVT libraries to support a common interface across multiple platforms. This enhancement brings the Solaris platform up to the same XVT release level as the other platforms.

Image Services for the Solaris Operating Environment, previously compiled with XVT 4.58, is now compiled with XVT 5.1. Image Services for HP-UX and Image Services for Windows Server have been compiled with XVT 5.1 since the Image Services 4.0.0 release. Image Services for AIX/6000 is compiled with XVT 5.0.

Hardware

LSI 22802 SCSI Adapter

RCIs: 3025

Implementation: Image Services for Windows Server

Support has been added for the LSI 22802 SCSI adapter. The LSI 22802 is a dual-port PCI-based SCSI adapter designed for use with high voltage differential devices. The LSI 22802 is for Windows-based systems only. This adapter is the same as both the Sun X6541A, previously qualified for Image Services for the Solaris Operating Environment, and the SYMBIOS SYM22802 adapter.

At this time qualification is restricted to systems running Windows 2003.

Localization

German Resource and Error Message Files

RCIs: 1703

SCRs: 187305, 187632, 187633, 187634 (Localized Files)

Implementation: All platforms

German versions of the resource files and error message text have been updated for this release.

If the LANG environment variable is set appropriately, the German localized resource files are used by the server applications and the German error message file is accessed by the ERM shared library. If the LANG variable is set to one of the following values, German files are used:

DEU	Windows Server
de_DE	AIX
de_DE.iso88591	HP-UX
de	Solaris

French Resource Files

RCIs: 2041

SCRs: 185809, 185810, 185812, 185813 (Localized Files)

Implementation: All platforms

French versions of the resource files have been updated for this release.

If the LANG environment variable is set appropriately, the French localized resource files are used by server applications. If the LANG variable is set to one of the following values, French files are used:

FRA	Windows Server
fr_FR	AIX
fr_FR.iso88591	HP-UX
fr	Solaris

French error message text is not available.

Operating Systems

AIX

RCIs: 3052

Implementation: Image Services for AIX/6000

The following AIX release is supported for the Image Services 4.0 DB2 Edition release of Image Services for AIX/6000:

AIX 5L Version 5.2

The following maintenance level will be tested as a post-qualification for this release:

AIX 5.2-03 Maintenance Level

For the most up-to-date information on maintenance level testing, refer to the specification for your Image Services release and operating system on the FileNet Customer Service & Support Web site: Product Tech Info > Image Manager > Image Services > Compatibility & Dependency.

HP-UX

RCIs: 3036, 3049

Implementation: Image Services for HP-UX

The following HP-UX release is supported for the Image Services 4.0 DB2 Edition release of Image Services for HP-UX:

HP-UX 11i

The following patch bundles have been tested with this release:

HP-UX 11i Patch Bundle December 2003

HP-UX 11i Patch Bundle March 2004

For the most up-to-date information on patch bundle testing, refer to the specification for your Image Services release and operating system on the FileNet Customer Service & Support Web site: Product Tech Info > Image Manager > Image Services > Compatibility & Dependency.

Solaris

RCIs: 3027

Implementation: Image Services for the Solaris Operating Environment

The following Solaris release is supported for the Image Services 4.0 DB2 Edition release of Image Services for the Solaris Operating Environment:

Solaris 9

The following patch release has been tested with this release:

Solaris 9 12/03

For the most up-to-date information on patch testing, refer to the specification for your Image Services release and operating system on the FileNet Customer Service & Support Web site: Product Tech Info > Image Manager > Image Services > Compatibility & Dependency.

Windows Server

Implementation: Image Services for Windows Server

The following Windows releases are supported for the Windows Server 4.0 DB2 Edition release of Image Services for Windows Server:

- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2000 Datacenter Server
- Windows Server 2003
- Windows Advanced Server 2003

Windows 2000 Service Pack 4 has been qualified. Windows 2003 does not currently have a service pack.

Remote Administration Console

Remote Access for Administrative Applications

RCIs: 3047

SCRs: 195698 (InstallShield Multiplatform)

Implementation: Server changes apply to all platforms; Remote Admin Console client software runs only on Windows.

The Remote Admin Console (RAC) product was originally released for use with Image Services 4.0.0. A new version, Image Services 4.0 SP2, Remote Admin Console, Release 4.0.20, is now available for use with Image Services 4.0 DB2 Edition. RAC can be installed on a new client system or be upgraded from a previous version of RAC.

For additional information on RAC, refer to the *Remote Admin Console User's Guide*, available on the RAC media. Installation instructions for the RAC client software are provided in a RAC_readme file on the RAC media.

Miscellaneous Enhancements

Image Services and IS Toolkit Support

RCIs: 2940, 2941

Implementation: All platforms

The following Image Services and IS Toolkit releases are supported together.

- Image Services 4.0 DB2 Edition supports IS Toolkit 3.6.x, IS Toolkit 4.0.0, IS Toolkit 4.0 DB2 Edition, and IS Toolkit 4.0 SP2.
- IS Toolkit 4.0 DB2 Edition supports Image Services 3.6.x, 4.0.0, 4.0 DB2 Edition, and 4.0 SP2.

IS Toolkit 4.0 DB2 Edition supports the following server operating systems:

AIX 5.1 and AIX 5.2
HP-UX 11i
Solaris 8 and Solaris 9
Windows 2000 and Windows 2003

IS Toolkit 4.0 DB2 Edition supports the following client operating systems:

AIX 4.3.x, AIX 5.1, and AIX 5.2
HP-UX 11.0 and HP-UX 11i
Solaris 2.6, Solaris 8, and Solaris 9
Windows 98, Windows NT 4.0, Windows 2000, Windows XP (post-GA), and Windows 2003

List of Enhancements by Subsystem

Enhancements by Subsystem

Refer to the following list for the RCIs that apply to each software subsystem of FileNet Image Services. Documentation and testing subsystems are not included.

Subsystem	RCI Number	Description
Database Maintenance (DB)	2830	Support IBM DB2.
Database Management (OR)	2830	Support IBM DB2.
Document Services (DS)	2830	Support IBM DB2.
Enterprise Backup Restore (B2)	2830	Support IBM DB2.
Generic Database (GB)	2830	Support IBM DB2.
Index Services (IS)	2830	Support IBM DB2.
InstallShield Multiplatform (MP)	2830	Support IBM DB2.
	3047	Release Remote Admin Console for IS 4.0 SP2/DB2.
Localized Files (LF)	1703	Release German translated resource files and error message text.
	2041	Release French translated resource files.
	2219	Support XVT DSC for C Release 5.1 with Image Services for the Solaris Operating Environment.
	2830	Support IBM DB2.
	3010	Expand support for Single Document Storage (SDS) file system retrieval (post-GA).
OSAR Services (OS)	3010	Expand support for Single Document Storage (SDS) file system retrieval (post-GA).
Performance Analysis (PA)	2830	Support IBM DB2.

List of Enhancements by Subsystem

Enhancements by Subsystem

Subsystem	RCI Number	Description
Security Administration Application (XS)	2830	Support IBM DB2.
Security Services (SE)	2830	Support IBM DB2.
Server Control/Management (XC)	2219	Support XVT DSC for C Release 5.1 with Image Services for the Solaris Operating Environment.
Setup Tools	2830	Support IBM DB2.
System Configuration Tools (SF)	2830	Support IBM DB2.
SystemV Applications Executive (EV)	2830	Support IBM DB2.
SystemV Miscellaneous (MV)	2219	Support XVT DSC for C Release 5.1 with Image Services for the Solaris Operating Environment.
	2830	Support IBM DB2.
	2951	Support multiple abstract interfaces.
WorkFlo Queue Services (WQ)	2830	Support IBM DB2.
XVT Portable Toolkit (XV)	2219	Support XVT DSC for C Release 5.1 with Image Services for the Solaris Operating Environment.
	2830	Support IBM DB2.

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