

Perceptive Content

Update Guide

Version: Foundation EP1

Written by: Product Knowledge, R&D
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Table of Contents

Perceptive Content Server Foundation EP 1 (7.4.x) Update Guide	5
Prepare for the update.....	5
Product version matrix.....	5
Special considerations.....	5
Update Perceptive Content Server	10
Update Perceptive Content Server on Windows.....	10
<i>Verify your Perceptive Content version</i>	<i>10</i>
<i>Reset workflow items</i>	<i>10</i>
<i>Stop Perceptive Content services.....</i>	<i>11</i>
<i>Back up your settings.....</i>	<i>11</i>
<i>Download updated files.....</i>	<i>11</i>
<i>Update the SQL or Oracle database</i>	<i>12</i>
<i>Remove INUSER schema sysadmin server role.....</i>	<i>12</i>
<i>Update the Perceptive Content Server.....</i>	<i>13</i>
<i>Verify your ImageNow database.....</i>	<i>13</i>
Update Perceptive Content Server on Linux.....	13
<i>Stop Perceptive Content services.....</i>	<i>14</i>
<i>Reset workflow items</i>	<i>14</i>
<i>Back up your database</i>	<i>14</i>
<i>Back up your settings.....</i>	<i>14</i>
<i>Update the Perceptive Content database.....</i>	<i>14</i>
<i>Update the Perceptive Content Server.....</i>	<i>15</i>
<i>Verify your Perceptive Content database and execute upgrade scripts.....</i>	<i>15</i>
<i>Start the Perceptive Content services</i>	<i>15</i>
Obtain updated license files	16
Install Updated Perceptive Content product licenses.....	16
Upgrade roles and privileges.....	17
Update Agents	17
Update ImageNow Client.....	18
Update Perceptive Content Forms Server	18
Update Integration Server	19
Update Business Insight.....	20
<i>Updates from 6.x to 7.0.....</i>	<i>20</i>

<i>Updates from 7.0 to 7.2</i>	21
<i>Updates from pre 7.1.5 to 7.2.2</i>	21
Upgrade to Business Insight 7.2	21
<i>Upgrade an existing content store</i>	21
<i>Upgrade to a new content store</i>	22
<i>Copy and rename your data source for imported custom reports</i>	23
Update Envoy to SOAPBridge	24
Update Fax Agent	24
Update Output Agent	24
Update Retention Agent	25
Update Perceptive Connector for SAP ArchiveLink	25
Appendix A: Database Changes by Release	26
Appendix B: INI Changes by Release	47
INI changes from 6.6.x to 6.7.x	47
INI changes from 6.7.x to 7.0.x	53
INI changes from 7.0.x to 7.1.x	58
INI changes from 7.1.x to 7.2.x	60
INI changes from 7.3.x to 7.4.x	61
Appendix C: Perceptive Content Upgrade Paths	62
Installer upgrade commands	62
<i>INTool commands</i>	62
<i>INUpgradeUtil commands</i>	62
Appendix D: Perceptive iScript Standard Template Library	63
iScript Standard Template Library	63
Appendix E: Discontinued products	64
Discontinued in 7.1.5	64
Discontinued in 7.2.1	64
Appendix F: Upgrade to 64-bit Perceptive Content on Linux	64
Pre 64-bit Linux upgrade checklist	64
Audit and validate components	64

Perceptive Content Server Foundation EP 1 (7.4.x) Update Guide

This readme file provides important information about updating ImageNow products from a previous version of 6.x to Perceptive Content Foundation EP 1 (7.4.x). Read this file before you update Perceptive Content Server, clients, agents, database, and extensions.

Note This document does not provide information on performing a more significant upgrade from a version prior to 6.x. If you are attempting to upgrade from a version previous to 6.x, Hyland Software recommends you arrange a managed upgrade. For more information, contact your account representative.

Prepare for the update

Complete backups of all Perceptive Content Server data before beginning any update installation. Neither Hyland Software, nor any of its authorized resellers are responsible for lost data caused by the update procedure described in this document.

Before updating your ImageNow system, verify that your system matches the requirements listed in the Technical Specifications.

Product version matrix

Release Name	Product Version Number
Foundation EP1	7.4

Special considerations

Before you perform an update of your ImageNow system, make sure that you keep in mind the considerations specific to your system configuration.

Active-Active

- In an active-active environment, there should only be one node instance per machine, spread across several machines. While the separate hardware devices have some shared file systems states, they are provided through third-party clustered file system products.
- If you are switching to an active-active server configuration during your 7.0 or higher update, note that switching involves various considerations.

64-bit

- A 64-bit operating system is required to run 64-bit applications. If you are not currently running a 64-bit operating system, you must upgrade prior to upgrading Perceptive Content.
- Before you install Forms Server, you must have your web application server, such as Apache Tomcat, installed. The version of the web application server (32 or 64-bit) must be compatible with the Forms Server version (32 or 64-bit).
- Verify the compatibility of all of your applications and business applications with a 64-bit operating system before you install Perceptive Content.

Database

- Prior to ImageNow 6.7, the INOW6 database tables resided in the DBO schema. For new installations of Perceptive Content 7.0 and higher, the default database name is INOW and the tables reside in the INUSER schema. During an upgrade to Perceptive Content 7.0 and higher, all tables are transferred from the DBO schema to the INUSER schema. Any permissions that have been granted to the ImageNow tables, are lost during the transfer.

Note This change also affects external systems that access the ImageNow database. If your users have hard-coded access to the ImageNow database tables using the OWNER.TABLE_NAME structure, you must change it when performing the update to 7.0 or higher.

- For Microsoft SQL databases, you must execute a command to grant permissions to the entire schema or multiple commands to grant permissions at the object level.
- To grant permissions to the entire schema, the following example shows the syntax structure used to grant permissions on the entire INUSER schema to a specific user:

```
GRANT SELECT [INSERT, UPDATE, DELETE] ON SCHEMA :: inuser TO reports;
```

- A working statement is shown in the following.

```
GRANT SELECT ON SCHEMA :: inuser TO reports;           -- To Grant
only SELECT privs on the entire INUSER schema to the reports user.
GRANT SELECT, INSERT, UPDATE, DELETE ON SCHEMA :: inuser TO reports;  -- To Grant
FULL privs on the entire INUSER schema to the reports user.
```

- For Oracle databases, the INUSER user needs the execute privilege on the DBMS_RANDOM package. Before running the database incremental script, you must connect to the INOW6 database as SYS and execute the statement to grant the execute permission:

```
SQL> grant execute on DBMS_RANDOM to inuser;
```

The incremental will not complete without this.

- Starting in version 6.7.0.2787, the INEMUSER schema was added to the database to hold the IN_EXTERN_MSG_SEQ table. This isolates the table from the rest of the INUSER schema. For SQL Server, the INEMUSER schema is owned by the INUSER user and has full privileges on the schema. For Oracle, in addition to the IN_EXTERN_MSG_SEQ table, there is also a sequence and a trigger that are created in the INEMUSER schema that is used for populating the table with sequential numbers. For Oracle, privileges should be granted on the INEMUSER objects to the INUSER user. If any database backup or replication jobs are schema based, they should be modified to include the INEMUSER schema.
- Filtered indexes are now part of the Perceptive Content 7.4 database schema.

Microsoft SQL Server

For the SQL Server to create and use filtered indexes, the following database parameter changes are required.

Note You must have the proper privileges to set database options when executing the database incremental scripts.

```
ALTER DATABASE INOW SET ANSI_NULLS ON
ALTER DATABASE INOW SET QUOTED_IDENTIFIER ON
ALTER DATABASE INOW SET CONCAT_NULL_YIELDS_NULL ON
ALTER DATABASE INOW SET ANSI_PADDING ON
ALTER DATABASE INOW SET ANSI_WARNINGS ON
ALTER DATABASE INOW SET ARITHABORT ON
ALTER DATABASE INOW SET NUMERIC_ROUNDABORT OFF
```

The following indexes are recreated as filtered indexes in the 7.2.3 to 7.4.0.3 database incremental scripts.

```
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_01 - Filter on WHERE (IS_NULL = 1) (new index)
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_02 - Filter on WHERE (STRING_VAL IS NOT NULL)
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_03 - Filter on WHERE (IS_NULL = 0)
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_04 - Filter on WHERE (TIME_VAL <> '1970-01-01 00:00:00.000')
```

Filtered indexes help promote improved query performance and plan quality as well as reduced index maintenance and storage costs for the IN_INSTANCE_PROP table.

PostgreSQL

The following indexes are recreated as partial indexes in the Perceptive Content 7.2.3 to 7.4.0.3 database incremental scripts.

```
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_01 - Filter on WHERE (IS_NULL = 1) (new index)
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_02 - Filter on WHERE (STRING_VAL IS NOT NULL)
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_03 - Filter on WHERE (IS_NULL = 0)
INUSER.IN_INSTANCE_PROP.INSTANCE_PROP_IDX_04 - Filter on WHERE (TIME_VAL <> '1970-01-01 00:00:00.000')
```

Partial indexes help promote improved query performance and plan quality as well as reduced index maintenance and storage costs for the IN_INSTANCE_PROP table.

Digital Signatures

- If the system has been upgraded from a previous version of ImageNow to Perceptive Content 7.x, you must create a new Digital ID and password to apply digital signatures. Digital signatures applied to documents in ImageNow 6.6 or 6.7 appear correctly on the pertinent documents. However, to apply any new digital signatures in the Perceptive Content 7.x system, all users are prompted to create a new Digital ID.
- When migrating from Windows to Linux with a version of Perceptive Content Server prior to 7.2.0, you must execute the `intool -cmd expire-digital-ids` command to immediately expire all active Digital IDs. Execute the `inUpgradeutil upgrade-digsig-version` command when updating the database to enable use of digital signatures on the system administered from a Linux server.

Envoy Replacement

The 7.2 release added Perceptive SOAPBridge Connector 1.0 as a replacement for Envoy. Perceptive SOAPBridge Connector is a REST service that allows you to facilitate automated, back-end integration of your SOAP business application.

To configure SSL connections from Perceptive Content to Perceptive Connect Runtime, see the *Perceptive Connect Runtime Installation and Setup Guide*. To establish trust between SOAPBridge and a remote service, see the 1.0.x *Perceptive SOAPBridge Connector Installation and Setup Guide*.

Important Web Service Security, an extension to SOAP, is not supported.

The 7.2 release also removed the following Envoy-specific items from iScript INRemoteService.

- Deprecated `setLoggingInterceptor`

- Deprecated `setSSLCredentials`
- Deprecated username and password from `INRemoteService addWS(string serviceName, string url, string desc, INWSAuthType/string authType)`
- Deprecated `INRemoteService addWS(string newServiceName, string newWsdL, string newDesc, INWSAuthType/string authentication, string username, string password, INWSSPasswordType, string passwordType)`
- Deprecated `INRemoteService addWS(string newServiceName, string newWsdL, string newDesc, INWSAuthType/string authentication, sCertFilePath, sCertFilePwd, sPrivateKeyFilePath, sPrivateKeyFilePwd)`
- Deprecated username and password from `updateWS(string newServiceName, string newWsdL, string newDesc, INWSAuthType/string authentication)`
- Deprecated `updateWS(string newServiceName, string newWsdL, string newDesc, INWSAuthType/string authentication, string username, string password, INWSSPasswordType/string passwordType)`
- Deprecated `updateWS(string newServiceName, string newWsdL, string newDesc, INWSAuthType/string authentication, sCertFilePath, sCertFilePwd, sPrivateKeyFilePath, sPrivateKeyFilePwd)`

Full Text Search Agent

- The 7.2 release removed Full Text Search Agent, which includes the removal of the Full Text section in the `inow.ini` file. Content automated system queues (ASQ) are no longer applicable since Content ASQs submitted items to Full Text Search Agent. Upgrading does not remove preexisting queues and unprocessed items could remain in the queue. You may need to update capture profiles, remove existing items from the queue and/or alter any routing rules associated with the queue.
- Upgrading to 7.2.x also removes all full text search filters. We recommend uninstalling `inserverFT` prior to upgrading to 7.2.x
- The removal of Full Text Search Agent now requires you to set the `REMOTED` value in the `inserverRec.ini` file to `TRUE`, even if Recognition Agent is running locally.

Integration Server

Starting with Perceptive Content, version 7.0.x and higher, you must install Perceptive Integration Server as part of the Business Insight product suite.

Message Queuing Agent

Message Queuing Agent was removed with the 7.1.5.1516 release. This includes the removal of the following items.

- `inserverMQ.exe` on Windows
- `inserverMQ` on Linux
- `inserverMQ.ini` file
- `IN_MESSAGE` database table
- `IN_MESSAGE_QUEUE` database table
- `IN_MESSAGE_QUEUE_MASTER` database table

Object Store Manager

The 7.2 release removed the Content Addressable Storage (CAS) integration type used by OSM sets and OSM trees. The `inUpgradeUtil upgrade-cas-to-ext` command converts the OSM CAS sets to OSM EXT sets automatically for Windows as part of the upgrade process. On Linux, you must manually execute the command.

RabbitMQ and Erlang

- Perceptive Content Server and all Perceptive agents, versions 7.1.4.1269 and higher, depend on RabbitMQ, a third-party message queuing broker. RabbitMQ is an open source software that requires Erlang, a programming language. You must download and install the supported versions of both products prior to upgrading to Perceptive Content 7.1.4.1269 or higher. See the RabbitMQ website for more information, and to download and install the product. For further considerations, see the following list.

Important Prior to installing RabbitMQ and Erlang, review the Perceptive Content Server > Message Queuing specifications in the 7.1.x and higher *Perceptive Content Technical Specifications* for the supported versions of both products.

- Perceptive Content relies on the AMQP 0.9.1 protocol from RabbitMQ, which is enabled by default.
- When utilizing Active-Active mode for Perceptive Content, you must configure multiple cluster nodes of RabbitMQ to achieve high availability for the system. For more information, see the RabbitMQ Clustering Guide.
- You are not required to share the same operating system or host machine for Perceptive Content and RabbitMQ. We recommend separate resources for RabbitMQ cluster nodes for the best high-availability and workload balancing.
- You must configure RabbitMQ for privacy over data connections. For more information, see the RabbitMQ Configuration Guide.
- If running in a cluster environment, you must upgrade all nodes at the same time and all nodes must be shut down during the upgrade. RabbitMQ and Erlang require that you are running the same major and minor version on all nodes in a cluster. For more information, see the RabbitMQ clustering guide.
- Eight new server settings were added to the Message Queuing group in the `inow.ini` configuration file in Perceptive Content version 7.1.4.1269, and seven new client settings were added to the group in version 7.1.5.1516. On Windows, prompts allow you to update these settings during the upgrade. On Linux, you must update the `inow.ini` file manually. For more information on the new settings, see the “`inow.ini` [Message Queuing] settings” topic of Manage Content help. For information on updating the `inow.ini` file on Linux, see the *Perceptive Content Server Installation and Setup Guide*.
- Two new `inUpgradeUtil` commands were added to Perceptive Content, version 7.1.5.1516: `inUpgradeUtil process-jobs-invalid-state` and `inUpgradeUtil republish-jobs`. The `inUpgradeUtil process-jobs-invalid-state` command scans the job tables and identifies jobs held in an invalid state. The jobs are marked as completed with an error status. The `inUpgradeUtil republish-jobs` command scans the job tables and identified jobs that have not started. These jobs are published using the new message queuing system and then processed by the appropriate agent. Note that the Windows and Linux install scripts run these commands as part of the upgrade process.

Note For more information on RabbitMQ, visit the RabbitMQ documentation site.

Windows operating systems

- When you update your ImageNow system on Windows, perform the update steps with the administrator user account used when ImageNow was originally installed. If this account is no longer available, and you licensed your version of ImageNow per machine rather than per user, you can use a local administrator account.

Update Perceptive Content Server

This release contains updates to the Perceptive Content Server on Windows or Linux running an external SQL database, such as Oracle or Microsoft SQL. Follow the steps in the procedure below that describes your environment and DBMS.

Note Before beginning an update of your Perceptive Content Server, perform a backup of your database. For more information on backing up a database, refer to the *Perceptive Content Best Practices for <database>* document.

Update Perceptive Content Server on Windows

To update ImageNow Server 6.x to Perceptive Content Server 7.2 on a Windows operating system, complete the following procedures.

1. Perform a backup of your database.
2. Verify your Perceptive Content version.
3. Reset working workflow items.
4. Stop Perceptive Content services.
5. Back-up your settings.
6. Download updated files.
7. Update the SQL or Oracle database.
8. Update the Perceptive Content Server.
9. Verify your Perceptive Content database.

Verify your Perceptive Content version

Before you begin your update, verify your current version of Perceptive Content. To look up this information, view the properties for the inserver.exe file.

To perform this procedure, complete the following steps.

1. In Windows Explorer, navigate to the inserver.exe file. The default location for this file is **[drive]:\inserver\bin64**.
2. Right-click **inserver.exe** and select **Properties**.
3. In the **Properties** dialog box, click the **Details** tab to view the file version.

Reset workflow items

Before you stop your Perceptive Content services, to reset any workflow items in a working state, you must run the following command:

```
intooll --cmd reset-item-status
```

Stop Perceptive Content services

To update your system, you must stop the Perceptive Content services. The Perceptive Content Server installation wizard automatically stops the Perceptive Content services, but you can also complete the following steps to stop all services manually.

Note Close all services and client connections before you stop INServer, including any remote agents.

1. Open the **Services** dialog box.
 - In Windows 7, to locate the **Services** dialog box, from the **Control Panel**, click **Administrative Tools**, and then click **Services**.
2. Right-click each ImageNow service and click **Stop**.

Back up your settings

When performing an upgrade, the system automatically retains your customized settings in the INI files. However, we recommend backing up these files as a safety precaution to ensure you retain your unique customizations. Complete the following action:

- Copy your INI files to a directory other than inserver, for example c:\tmp.

Download updated files

To update your ImageNow build, you must download the updated version for the Perceptive Content Server, Perceptive Content Client, database incremental files, and any additional agents that comprise your ImageNow suite. To download the updates, complete the following steps.

1. Go to www.perceptivesoftware.com, click **Customer Portal**, and then click **Downloads**.
2. Search for the Perceptive Content Server, Perceptive Content Client, and incremental files for the 7.2 version.
3. Optional. Search for and save the files for any additional agents that are relevant to your ImageNow configuration.

Update the SQL or Oracle database

You must run the appropriate incremental files for your database application and the current version of Perceptive Content Server. Follow the instructions appropriate for your RDBMS for running an incremental database upgrade script. A qualified DBA should perform this action. For more information on best practices for your database, refer to the *Perceptive Content Best Practices for <database>*.

Note If you are updating an Oracle database you may choose to delete and temporarily disable the Oracle recycle bin prior to running the upgrade script. This prevents potential errors related to objects that exist in the recycle bin.

1. Click **Start**, and then click **Run**.
2. In the **Run** dialog box, type **cmd** and then click **OK**.
3. In the **Command Prompt** window, change to the **[drive:]\\server\\bin** directory.
4. Run the following INTOOL command to view the incremental version of the database you are running:

```
intool --cmd get-db-version
```

5. In the **Perceptive Content Server <database type> DB Creation and Updates Scripts Build <build number>** file, apply each incremental file individually in order from the current version of your database to the latest incremental.

Note Incremental-SS_6.6_to_6.7.0.2222.sql and later incrementals put the INOW6 database in SINGLE_USER mode while Snapshot Isolation and Row Versioning are enabled. The current upgrade connection remains active. The system stops, rolls back, and then disconnects any other connections to the database to complete the READ_COMMITTED_SNAPSHOT command. The system returns the database to MULTI_USER mode and executes the rest of the script.

Remove INUSER schema sysadmin server role

Important Complete the steps in this section prior to updating the Perceptive Content Server.

In Perceptive Content Server 7.0 and higher, all Perceptive Content tables and indexes reside in the INUSER schema. You must ensure that the INUSER schema does not have the sysadmin server role granted to it. If the INUSER schema has the sysadmin server role, this role sets the default schema as the database owner instead of the INUSER schema. As a result, Perceptive Content Server might not start, and connections to the INOW6 database cannot query the Perceptive Content tables. To remove the INUSER schema sysadmin server role, complete the following steps.

1. Open **SQL Server Management Studio**.
2. Connect to the server hosting the SQL Server instance that contains the INOW6 database.
3. In **Object Explorer**, expand **Security**, and then expand **Logins**.
4. Right-click **inuser**, and then click **Properties**.
5. On the **Login Properties – inuser** dialog box, click **Server Roles**.
6. In the **Server roles** area, uncheck **sysadmin**.
7. Click **OK**.
8. Close **SQL Server Management Studio**.

Update the Perceptive Content Server

Complete the following steps to update the Perceptive Content Server. For more detailed information about installing the Perceptive Content Server, refer to the *Perceptive Content Server Installation and Configuration Guide*.

1. Double-click the **Perceptive Content Server <64 or 32-bit> for MSSQL and Oracle <patch number>** file to run the Perceptive Content Server installer.

Notes

- If you have User Account Control (UAC) with your Windows operating system, right-click the installer and select **Run as Administrator**.
 - During this installation, a message appears to inform you that this is an update. If you do not receive this message, stop the installation and verify that you are logged on as the same Administrator user account used when ImageNow was originally installed.
2. Compare the previous INI files from your backup copy of the **/inserver/etc** directory with the new INI files in **/inserver/etc**. The Windows installer automatically adapts your previous settings to the new settings; however, the installer overwrites any custom comments, settings, or notes that you might have previously added. Alter the new INI files in **/inserver/etc** as needed.

Verify your ImageNow database

Before proceeding, use the following procedure to verify your ImageNow database. The INTool command you run in this procedure displays any differences between the latest version of the Perceptive Content database and the version of ImageNow you are currently using.

1. Click **Start**, and then click **Run**.
2. In the **Run** dialog box, type `cmd` and then click **OK**.
3. In the **Command Prompt** window, change to the **[drive:]\inserver\bin** directory.
4. Enter the following command at the prompt.

```
intool --cmd db-schema-validation
```

Text describing the validation appears on the screen. If you see the message: **Database validated. No inconsistencies detected**, your database is aligned and you do not need to do anything further to update the database. If you get any other message, contact Product Support and provide them with a copy of any message you received.

Update Perceptive Content Server on Linux

Important Perceptive Content 7.3.0 is the first 64-bit release of Perceptive Content on Linux. We strongly recommended that you first upgrade to Perceptive Content 7.2.3 prior to upgrading to Perceptive Content 7.3.0 and later. This reduces the scope of the upgrade and focuses on reviewing and validating Perceptive Content components and processes on 64-bit Linux. For more information, refer to [Appendix F: Upgrade to 64-bit Perceptive Content on Linux](#).

Note Before beginning an update of your Perceptive Content Server, perform a backup of your database. For more information on backing up a database, refer to the *ImageNow Best Practices for <database>* document.

1. Stop Perceptive Content services.
2. Reset working workflow items.

3. Perform a backup of your database.
4. Back-up your settings.
5. Upgrade the Perceptive Content database.
6. Upgrade the Perceptive Content Server.
7. Verify your Perceptive Content database and execute upgrade scripts.
8. Start the Perceptive Content services.

Stop Perceptive Content services

From /inserver/bin, stop all ImageNow services. All services and client connections must be closed before inserver is stopped, including any remote agents.

1. To determine which services are running, enter the following information.

```
./inserver -s
```

2. To stop all services, enter the following information.

```
./<agent name> -k
```

Note After you have completed an upgrade to 7.2, you can use the following command to stop all running services.

```
./inserver -ka
```

Reset workflow items

Before you stop your ImageNow services, to reset any workflow items in a working state, you must run the following command.

```
./intool --cmd reset-item-status
```

Back up your database

Perform a full backup of your database following the documentation for your database.

Back up your settings

Back up your configuration files to ensure you retain your unique customizations.

- Perform the following action to copy the contents of /inserver/bin and /inserver/etc directory to a backup directory.

```
cp -R /inserver /<path to backup directory>
```

Update the Perceptive Content database

Run the appropriate DDL script for your database application. Follow the instructions appropriate for your RDBMS for running an incremental database upgrade script. This should be performed by a qualified DBA. Apply each incremental file individually in order from the current version of your database to the most updated incremental.

Update the Perceptive Content Server

Complete the following steps to update the Perceptive Content Server. For more information about installing the Perceptive Content Server, refer to the *Perceptive Content Server Installation and Configuration Guide*.

1. Use the **mv** command to move the **ImageNow-Server-Full-Linux64_x.x.x.x.tar.gz** file to the **/inserver** directory.

```
tar -xzf ImageNow-Server-Full-Linux64_x.x.x.x.tar.gz
```

3. From the **inserver** directory, issue the following command to change ownership.

```
chown -R root:bin *
```

4. Compare the previous INI files from your backup copy of the **/inserver/etc** directory with the new INI files in **/inserver/etc**.

Verify your Perceptive Content database and execute upgrade scripts

Configure `odbc.ini` as documented in the *Perceptive Content Server Installation and Configuration Guide*.

1. Set up key environment variables by sourcing the **setenv.sh** script from the **/inserver/bin** directory.

Note This step is necessary every time a new login session is established.

```
. ./setenv.sh
```

2. Execute the following intool schema validation command.

```
./intool --cmd db-schema-validation
```

The system displays text describing the validation. If you see the message: **Database validated. No inconsistencies detected**, your database is aligned and you do not need to do anything further to update the database. If you see any other message, contact Product Support and provide them with a copy of any message you received.

3. Run the **upgrade_to_latest.sh** file, with an argument specifying the version of Perceptive Content Server you are upgrading from, including the major, minor, and patch numbers. For example:

```
./upgrade_to_latest.sh 7.2.3
```

4. Review the update log and verify that no errors are listed. This file is located in **/inserver/log** directory and is named **intool_Primary_<date>.log**. The log contains the changes performed by the update steps.

Start the Perceptive Content services

- Start Perceptive Content services by running **`pwd`/service_name** for all services in the **/inserver/bin** directory.

```
`pwd`/inserver -start
`pwd`/inserverBatch -start
`pwd`/inserverAlarm -start
`pwd`/inserverJob -start
```

Obtain updated license files

To obtain the hardware information for the Perceptive Content Server, you must be the admin user on Windows. When you update from ImageNow 6.x, you need to acquire updated licenses, but do not need to purchase new licenses unless you purchase additional products.

1. Start Perceptive Content Server. If you have an active-active setup, you must start all instances of Perceptive Content Server on all nodes.
2. To generate a system fingerprint using Perceptive Content Management Console, complete the following substeps.
 1. Click **Start** and select **All Programs > Perceptive Content > Perceptive Content Management Console**.
 2. In the **Login** page, click **License Manager**.
 3. In the **License Management** dialog box, select **Save system fingerprint** and click **OK**.
 4. In the **Save As** dialog box, enter a name for the file and then navigate to the location where you want to save the report. Click **Save**.
3. To generate a system fingerprint using INTool, complete the following steps:
 1. Click **Start**, and then click **Run**.
 2. In the **Run** dialog box, type **cmd** and then click **OK**.
 3. In the **Command Prompt** window, change to the **[drive:]inserver\bin64** directory.
 4. Enter the following command at the prompt.

```
intool --cmd license-sysfp
```
 5. The file is saved with an SYSFP extension in the **[drive:]inserver\bin64** directory.
4. Contact your Enterprise Software representative for instructions on where to send the system fingerprint file to obtain your license. The system fingerprint file has an SYSFP extension.
5. When you receive the license files, store the license files in a temporary directory on the Perceptive Content Server computer.

Install Updated Perceptive Content product licenses

Before entering your licenses, you must have installed the Perceptive Content Server and at least one Perceptive Content Client. You must have Service Administrator privileges to install Perceptive Content licenses. The Perceptive Content Client must be available on a Windows machine to install the Perceptive Content product licenses.

1. When you receive the license files from your Enterprise Software representative, copy them to a temporary folder where you can access them with the Perceptive Content Client.
2. To upload licenses, complete the following substeps.
 1. Click **Start** and select **All Programs > Perceptive Content**.
 2. In the login page, click **License Manager**.
 3. In the **License Management** dialog box, select **Upload Licenses** and click **OK**.
 4. Navigate to the folder where the Perceptive Content license files are stored, select the LIC files to upload, and click **Open**.

5. Enter the **User Name**, **Password**, and **Server Location** and click **OK**.
6. Optional. The License Upload dialog box lets you view the type name, actual license code, and status of each license upload. To display detailed information for a specific license, select the appropriate row.
3. Click **OK**.

Upgrade roles and privileges

When you update from Perceptive Content 6.x, users with the owner or manager roles are assigned new user roles and privileges to preserve their former capabilities in the new environment. The following user roles and privileges are assigned during an upgrade.

6.3.x-6.7.x Role	7.x Role and Privilege Set
Owner user or manager user	Perceptive Manager Department Manager of the Default department All Global privileges The ability to override private documents in the Client, normally granted in INTool.

When a user becomes a Perceptive Manager because of the upgrade, the user gains access to most of the privileges in the system. When you demote a Perceptive Manager, that user only loses the manager privileges in the global privilege category, while the other global privileges assigned during the upgrade remain active. Therefore, if you demote a Perceptive Manager after upgrade, you may need to disable several privileges manually that were assigned to that user.

Migration functionality is enabled for Perceptive Managers by default. You can disable migration for all users using an INTool command.

In Perceptive Content 7.0.x, the User Security privilege was removed. This privilege is now split into several privileges that grant users the ability to assign specific categories of privileges to users and groups. This split allows for more flexibility in the security capabilities granted to users in your organization. In addition, the Groups privilege, from the manage section of the global privilege category, no longer grants the ability to assign any privilege to groups, but instead only grants the ability to create a group and modify the members of a group. All users and groups with the Groups privilege in your prior version of Perceptive Content retain that privilege during upgrade, but you must assign additional privileges to the users and groups to reinstate their former ability to assign privileges to groups.

The system automatically generates a text report in the etc directory of your server, displaying the users and groups who had the User Security privilege and Groups privilege granted or denied in your prior version of Perceptive Content.

Changes were also made to batch processing privileges. The **Drawer > Batch (Proposed Key) > Process** privilege is now required for batch processing and must be granted to users manually after you upgrade.

We recommend you reassign privileges and user roles after you upgrade to 7.x. For more information, refer to *Department Administration Best Practices*.

Update Agents

You can update your agents using the procedures described in the installation guides provided for each agent. When you update an agent, run the same steps as if you are installing a new version. The

installation wizard detects the update and installs the product accordingly. Review the product readme for information about enhancements and changes that apply to specific agents. The agents listed in the following sections in this guide require additional steps.

Update ImageNow Client

Refer to the *Perceptive Content Server and Client Installation Guide* for information about running the installation wizard to update your Perceptive Content Clients. When you update the Perceptive Client, run the same steps as if you are installing a new version. The installation wizard detects the update and installs the product accordingly.

You can update the Perceptive Client several different ways, including installing the client directly, using the automatic updater, or PEDS. To use the automatic updater, refer to the “auto update” readme file. For more information on PEDS, refer to the *Perceptive Enterprise Deployment Suite Installation Instructions*. Review the product readme for information about enhancements and changes for Perceptive Content Client.

Notes

- In previous versions of ImageNow, you used the Automatic Updater. In Perceptive Content 7.0.x, this functionality was replaced with PEDS.
- In previous versions of ImageNow, you used the Perceptive Content Server Administrator (ISA) to perform diagnostic tasks. In Perceptive Content 7.0.x, this general functionality was included in the Diagnostics tab in Management Console.

All existing ImageNow Client tokens are invalidated during the upgrade, and new tokens are generated as each Perceptive Content Client connects to the server.

Update Perceptive Content Forms Server

Review the product readme for information about enhancements and changes for Forms Server.

Important Refer to the *Perceptive Content Technical Specifications* guide for system requirements.

Important When you perform an upgrade from an older version to a newer version number, Enterprise Software recommends testing forms in a test environment before implementing in a production environment. Version 6.5 and above includes enhanced features that make this testing step mandatory if you created worksheets or forms on any previous versions. If an error occurs on the form, contact Product Support.

To upgrade an existing version of Forms Server to the latest version, complete the following steps.

1. Stop Tomcat.
2. Back up the entire `[path]/${TOMCAT_HOME}/webapps/imagenowforms` folder. You do not need to back up `[path]/${TOMCAT_HOME}/work/Catalina/localhost/imagenowforms`.
3. Delete the `[path]/${TOMCAT_HOME}/work/Catalina/localhost/imagenowforms` directory.
4. If you used the Windows installer to install Forms Server, uninstall it.
5. Download the WAR file.
6. Place the **psw-content-forms-server.war** file into `[path]/${TOMCAT_HOME}/webapps/`.
7. Start Tomcat to extract the WAR file.
8. Optional. When upgrading, to ensure legacy URLs persist, rename the **psw-content-forms-server** directory to **imagenowforms**.
9. Compare the **WEB-INF/imagenowforms.settings** file in your backup to the new **WEB-INF/imagenowforms.settings** file and copy the settings from the older file to the new one, if necessary.
10. Under the **Application server settings** section, in the **integration-server-path** setting, enter the full path to Integration Server.
11. If you updated Forms Server from version 6.4.x to 7.2.x, you must move the **imagenowforms.xml** file from your backup to the `${IMAGENOWDIR6}/etc` directory.
12. Restart Tomcat.
13. After verifying that Forms Server is deployed, you can safely remove the backup directory as needed.

Note For more information about extracting the WAR file in Tomcat, or information regarding communication between Forms Server and Integration Server, refer to the *Forms Server Installation and Setup Guide Foundations EP1*.

Update Integration Server

Review the product readme for information about enhancements and changes for Perceptive Integration Server.

Important Refer to the *Perceptive Content Technical Specifications* guide for system requirements.

To upgrade an existing version of Integration Server to the latest version, complete the following steps.

1. Stop Tomcat.
2. Back up the entire `[path]/${TOMCAT_HOME}/webapps/integrationserver` folder. You do not need to back up `[path]/${TOMCAT_HOME}/work/Catalina/localhost/integrationserver`.
3. Delete the `[path]/${TOMCAT_HOME}/work/Catalina/localhost/integrationserver` directory.
4. If you used the Windows installer to install Integration Server, uninstall it.
5. Download the WAR file.
6. Place the **integrationserver.war** file into `[path]/${TOMCAT_HOME}/webapps/`.
7. Start Tomcat to extract the WAR file. For more information about extracting the WAR file in Tomcat, refer to the *Integration Server Installation Guide*.

8. Compare the **WEB-INF/integrationserver.ini** file in your backup to the new **WEB-INF/integrationserver.ini** file and copy the settings from the older file to the new one if necessary.
9. Restart Tomcat.
10. After verifying that Integration Server is deployed, you can safely remove the backup directory as needed.

Update Business Insight

Review the product readme for information about enhancements and changes for Business Insight. For installation information, refer to the *Business Insight Installation Guide* located at www.perceptivesoftware.com. Business Insight 7.1.x and higher is only compatible with Perceptive Content Server 7.1.x and higher.

Note Reports generated through the Report from View feature are not guaranteed to work after an upgrade, and will break with a breaking schema change as they are generated using direct SQL.

Updates from 6.x to 7.0

Refer to the following information upgrading ImageNow, version 6.x, to Perceptive Content, version 7.0.

- Upgrade IBM Cognos server from 8.4.1 FP2 to 10.2.1 FPI.
- Cognos authentication is done through Perceptive Integration Server. No license is required.

Note The data source label changes from INOW6 to INOW as part of the upgrade. If you have created a custom report in a previous version of Business Insight using custom SQL or the Create Report from View option, the updated data source name may cause an error when you attempt to run the imported report. To correct this, open the report, go to the query, and point the query to the correct data source name, INOW.

Updates from 7.0 to 7.2

Refer to the following information when upgrading Perceptive Content from version 7.0 to version 7.2.

- Direct user name access to the Cognos Connection Portal.
- The Reports section of Management Console has been removed. Reports from View are retained in the View section of Management Console.
- Cognos Mobile is available with this version.

Note The Manage Reports privilege has changed, starting in 7.1.0. Perceptive Managers can grant the Reports View privilege to give Content client access. Report Managers no longer implicitly have View and Run access to all reports. These kinds of privileges should be granted directly through Cognos.

Updates from pre 7.1.5 to 7.2.2

When updating Perceptive Content from versions pre 7.1.5 to version 7.2.2, run the following command to allow you to successfully generate forms using the forms agent.

```
`inUpgradeUtil upgrade-privs --from 7.1`
```

Upgrade to Business Insight 7.2

To upgrade an existing version of Business Insight with the latest version, complete the following procedures on the computer where Business Insight is installed. Before you begin, create a backup of your content store. If you are going to install a newer version of Cognos on the same machine as your existing version, either shutdown your legacy system or adjust the port settings to avoid port conflicts.

There are two options for upgrading Cognos. If you are running incrementals on your INOW database such that all User IDs are retained, you will want to upgrade the existing content store. This will retain all reports and report permissions. If during the upgrade your User IDs will change, a better option is to start from a new content store and import any reports you want to keep from your legacy system.

Upgrade an existing content store

Upgrading an existing content store is the easiest and most effective way to upgrade Cognos while ensuring that all permissions are retained.

1. Download the 7.2 setup kit to a temporary directory.
2. To install the 7.2 version of Business Insight, complete the following substeps.
 1. Open the 7.2 setup kit and double-click the **ImageNowBI_Setup.exe** file.
 2. Run the installer according to your operating system and DBMS. Refer to the Business Insight Installation Guide for more information.
 3. If you use an Oracle DBMS for ImageNow, complete the following steps.
 1. In the **Installation Wizard Completed** page, clear the **Launch Business Insight Configuration** check box and then click **Finish**.
 2. Copy the **ODBC.jar** file from the legacy system to your new `<install_dir>\webapps\p2pd\WEB-INF\lib` directory.
 4. Configure the Internet Information Services (IIS) Gateway for your new installation as described in the *Business Insight Installation Guide*.

3. Access the **Business Insight Configuration** program and adjust the content store setting to point to your existing content store.
 1. Select **Data Access > Content Manager > Content Store**.
 2. Adjust the information to point to your existing content store.
4. Within the **Business Insight Configuration** program, click the **Start** button to start the service.
5. When prompted, upgrade your existing reports to the latest report specification.
6. Cognos should now be running, and all reports should be upgraded.
7. Access the `<install_dir>\bin\utilities\biintegrator` directory and run the Business Insight integration utility to configure the new environment and to import new versions of the reports.

Upgrade to a new content store

If you want to upgrade using a fresh content store, install Business Insight according to the Business Insight Installation Guide. You will export specific report folders from your legacy system and import them into your new one. These steps will guide you through exporting and importing folders into IBM Cognos.

Export reports from legacy Cognos

1. Open an Internet Explorer web browser and access the following URL, where *[host name]* represents the name of the Business Insight server computer.

`http://[host name]/cognos8`
2. Log in to the web interface.
3. Since you can only export folders and not individual reports, create a new folder under **Public Folders** and copy every report you want to export into that folder before you proceed.
4. From the **Launch** menu, select **IBM Cognos Administration**.
5. On the **Configuration** tab, in the left pane, click **Content Administration**.
6. In the **Administration** toolbar, click **New Export** and complete the following substeps.
 1. Enter a name, an optional description, and a screen tip for the report library archive and click **Next**.
 2. Under **Deployment** method, click **Select public folders**, directory and library content and click **Next**.
 3. Under Public folders, directory and library content, click **Add**.
 4. Under **Public Folders**, select the directory created above that you want to export and click the arrow button to move it to the **Selected entries**, then click **OK**.
 5. Optional. If you want to keep the saved output, run history, or schedules associated with the selected reports, check the appropriate option under **Options**. Click **Next**.
 6. On the **Select the directory content – New Export** wizard page, leave the options unchecked and click **Next**.
 7. On the **Specify the general options – New Export** wizard page, leave the default items selected and click **Next**.
 8. Under **New archive**, verify the name of the archive.

9. Optional. To password protect the archive, select the **Encrypt the content of the archive** check box and click **Next**.
 10. If you opted to password protect the archive, enter the encryption password and then click **OK**.
 11. Verify the export details and then click **Next**.
 12. Under **Action**, select **Save** and run once and then click **Finish**.
 13. Verify the export details and then click **Run**.
 14. Click **OK**.
7. The archive is exported to the **[drive:]/Program Files/Cognos/c8/deployment** directory.

Import legacy reports archive

After your new Business Insight environment is set up and running, you can import your exported archive and access your custom reports.

1. Copy the exported archive from your legacy deployment directory and place it into the deployment directory of your new installation.
2. Log in to the new Cognos portal directly: [http://\[host_name\]/ibmCognos](http://[host_name]/ibmCognos).
3. Access the **Content Administration** page from **IBM Cognos Administration**.
4. Click the **New Import** button to create a new import job.
5. Select the exported archive from the list and click **Next**.
6. After you update the description information, click **Next**.
7. On the **Select the public folders and directory content – New Import** wizard page, select the folder you want to import and click **Next**.
8. Continue clicking **Next** until you reach the **Select an action – New Import** wizard page. Keep the default action of **Save and run once**, and click **Finish** to run the import job.

After the import has completed, return to your **Public Folder** to view the imported directory with your reports.

Copy and rename your data source for imported custom reports

When you upgrade to a new version, your custom reports are still configured to refer to the INOW6 data source. Because the data source name changed to INOW in version 7.0, you can create a copy of your data source labeled INOW6 to prevent the reports from breaking.

To create a copy of your data source labeled INOW6, complete the following steps.

1. Open the **Cognos Administration Portal**.
2. On the **Configuration** tab, in the left pane, click **Data Source Connections**.
3. In the right pane, for the **INOW** data source connection, under **Actions**, click **More**.
4. In the **Perform an action – INOW** screen, click **Copy**.
5. In the **Save as a copy** screen, in the **Name** field, type **INOW6**.
6. Click **OK**.

Your custom reports may still break, however, if there was a change to the model they were leveraging inside the report. To remedy the situation, you need to modify the report to refer to the INOW data source and update the usage of the model accordingly.

Update Envoy to SOAPBridge

Important See the *Perceptive Connect Runtime Installation and Setup Guide* and the 1.0.x *Perceptive SOAPBridge Connector Installation and Setup Guide* to install and set up SOAPBridge Connector.

When updating Envoy to SOAPBridge, ensure you have completed the following items.

- Populated the pcr.soap.bridge.url in the inow.ini file with the url of a SOAPBridge Connector.
- Retrieved certificates from web services that communicate over SSL/TLS and uploaded them to Perceptive Connect Runtime JAVA trust store, as outlined in the above install guides.
- Updated any iScripts that were using the deprecated overloads and functions exposed from INRemoteService document imaging object.

Update Fax Agent

To update Fax Agent, you must uninstall and reinstall in your environment. For more information on installing Fax Agent, refer to the *Perceptive Content Interact for Fax Agent Installation Guide* that is located on our website at www.perceptivesoftware.com.

When you update Fax Agent from a previous version, ensure you back up the btcall.cfg file and the callctrl.cfg file located in the inserver\brooktrout\config directory. Place these files in a temporary directory away from the inserver directory. Run the installer according to the steps in the Fax Agent Installation and Setup Guide. If the CFG files are missing, replace them with the files you backed up and place them in the inserver\brooktrout\config directory.

Update Output Agent

To update Output Agent on Windows, run the installer according to the Output Agent Installation and Setup Guide. To update Output Agent on Linux, perform the following steps:

1. From **/inserver/bin**, stop the Output Agent service. To stop the services, enter the following information.

```
./inserverOutput -stop
```
2. Copy the inserverOutput.ini file from the /inserver/etc directory to a backup directory.
3. To download the latest version of Output Agent, perform the following substeps:
 1. Go to www.perceptivesoftware.com, click **Customer Portal**, and then click **Downloads**.
 2. In the **Downloads** page, in the right pane, in the **Content** section, click the **Clear Search** link.
 3. In the **Downloads** page, in the left pane:
 1. Expand **Platform** and select your Linux platform.
 2. Expand **Product** and select **Output Agent**.
 3. Expand **Product Release** and select **7.2**.
 4. In the **Downloads** page, in the right pane, select the check boxes for the following files.
 - The latest build of the Output Agent, shown by the highest Build Number.

- Linux Supporting Files.
5. Click the **Download** button and then save the files to a temporary directory on your computer.
 4. From **/inserver**, unzip and tar the **ImageNow_Output_Agent_VERSION#_BUILD#_for_PLATFORM** installer file.


```
gunzip ImageNow_Output_Agent_VERSION#_BUILD#_for_PLATFORM.tar.gz
tar -xvf ImageNow_Output_Agent_VERSION#_BUILD#_for_PLATFORM.tar
```
 5. From the **inserver** directory, issue the following command to change ownership.


```
chown -R root:bin *
```
 6. Compare the previous INI files from your backup copy of the **/inserver/etc** directory with the new INI files in **/inserver/etc**. The Windows installer automatically adapts your previous settings to the new settings; however, the installer overwrites any custom comments, settings, or notes that you might have added previously. Alter the new INI files in **/inserver/etc** as needed. These changes appear in the [Appendix B: INI Changes by Release](#) section of this document.
 7. Start the Output Agent service by running **'pwd'/service_name -start** for all services in the **/inserver/bin** directory.


```
'pwd'/inserverOutput -start
```

Update Retention Agent

If you are upgrading your system to include a Retention license, the system may require you to start the Retention Agent service manually after installing the license.

To start the Retention Agent service manually, complete the following steps.

Note Close all services and client connections before you stop inserver, including any remote agents.

1. Open the **Services** dialog box.
 - In Windows 7, to locate the **Services** dialog box, from the **Control Panel**, click **Administrative Tools**, and then click **Services**.
2. Right-click the **Retention Agent** service and click **Start**.

Update Perceptive Connector for SAP ArchiveLink

To update Perceptive Connector for SAP ArchiveLink after installation, you must add the ArchiveLink installation directory path to the Tomcat configuration java library path. After you install Perceptive Connector for SAP ArchiveLink, complete the following steps.

1. Stop Tomcat.
2. Navigate to the Tomcat **[path]/\$TOMCAT_HOME/bin** directory.
3. Create a **setEnv.bat** file in the directory using the following command.

```
set CATALINA_OPTS=%CATALINA_OPTS% -
Djava.library.path=%PATH%;<PathToImageNowBinDirectory>
```

Note If Tomcat is installed as a Windows service, add the **java.library.path** Java options settings from the Tomcat service configuration application. For more information, see the Tomcat documentation.

4. Restart Tomcat.

Appendix A: Database Changes by Release

Use the following Appendix to understand the database changes required by each release. The incremental SQL scripts listed in the steps above perform these changes in your database. Carefully review the incremental database script for to understand the details of the changes.

Database Changes	Description of Changes
Incremental 6.6.0.125_to_6.6.0.237.sql	Added table: IN_LIC_TOKEN_HWFP
Incremental 6.6_to_6.7.0.2355.sql	Created tables: IN_ACTION_GROUP, IN_ALARM_AGENT_STATE, IN_CAPTURE_SOURCE_OUTLOOK, IN_CLASS_LAYOUT, IN_DEP_TIMING_DATA, IN_DEP_TIMING_PARAM, IN_DEP_TIMING_REPORT, IN_DEP_TIMING_SUMMARY, IN_DOC_TYPE_LIST_REL, IN_INSTANCE_ANCESTRY, IN_INSTANCE_SEQ, IN_JOB_AGENT_STATE, IN_LAYOUT, IN_LAYOUT_COL, IN_LIC_REGISTERED_HW_NODE, IN_LM_SCREEN_CONTEXT_MAP, IN_MESSAGE_QUEUE, IN_MESSAGE_QUEUE_MASTER, IN_OSM_AGENT_STATE, IN_PROJ_CAPTURE_PROFILE, IN_RC_ADDRESSEE, IN_RC_EMAIL_ADDRESS, IN_RC_EMAIL_METADATA, IN_RC_EMAIL_METADATA_ADDRESS, IN_RC_FOLDER, IN_RC_FOLDER_POLICY, IN_RC_FOLDER_TYPE, IN_RC_FOLDER_TYPE_LIST, IN_RC_FOLDER_TYPE_LIST_MEMBER, IN_RC_METADATA, IN_RC_METADATA_ADDRESSEE, IN_RC_METADATA_INSTANCE, IN_RC_PAGE_METADATA, IN_RT_AGENT_STATE, IN_SHORTCUT, IN_TASK_AGENT_STATE, IN_TIMING_HISTORY, IN_USR_VIEW, IN_WF_AGENT_STATE, IN_WF_INTEGRATION_MAP, IN_WF_INTEGRATION_QUEUE Altered columns in: IN_INSTANCE New columns: CLASS_TYPE, IN_INSTANCE, INSTANCE_NAME, CREATION_USR_ID, CREATION_TIME, MOD_USR_ID, MOD_TIME, ADD_USR_ID, ADD_TIME, LOCK_SESSION_ID, LOCK_REVISION_NUM, LOCK_TYPE, DELETION_STATUS, : ACTION_GROUP_ID IN_SC_SESSION New column: DISCONNECT_TIME IN_TIMING_SUMMARY New columns: SERVER_ID, NODE_ID, USR_ID, OS_USER_NAME Created indexes in: XIE1IN_FORM, INSTANCE_IDX_04, INSTANCE_IDX_05, LIC_MON_IDX05, LM_SCREEN_IDX07, PHSOB_IDX07, SERREG_IDX04, TIMING_S_IDX03, TIMING_S_IDX04, TIMING_S_IDX05, VIEW_IDX08, WF_ITEM_IDX_13 Altered indexes in: CMIB_IDX02, DOC_TYPE_IDX2, INSTANCE_IDX_03, TIMING_S_IDX02

	Created foreign keys in: IN_DOC new key: FK_DOC_INSTANCE_ID, IN_DRAWER new key: FK_DR_I_ID, IN_INSTANCE new key: FK_I_AG_ID, IN_INSTANCE new key: FK_I_S_ID, IN_LM_SCREEN new key: FK_LMS_S_ID, IN_PROJ new key: FK_PROJ_INSTANCE_ID, IN_TASK new key: FK_T_S_ID, IN_TIMING_SUMMARY new key: FK_TS_N_ID, IN_TIMING_SUMMARY new key: FK_TS_S_ID, IN_VIEW new key: FK_V_S_ID, IN_WF_ITEM new key: FK_WI_S_ID, IN_WF_PROCESS new key: FK_WFP_S_ID
Incremental 6.6_to_6.7.0.2355.sql (continued)	Created columns in: IN_BATCH new column: PATH_MODE, IN_BATCH_PAGE new column: DOC_NAME, IN_CONTEXT_MAP_ITEM_BASE new column: ITEM_LEVEL, IN_DOC new column: LEGACY_UNIQUENESS, IN_DOC_TYPE new column: IS_RECORD_TYPE, IN_DOC_TYPE_LIST new column: LIST_TYPE, IN_DOC_TYPE_LIST new column: COLOR, IN_DRAWER new column: INSTANCE_ID, IN_EXTERN_MSG new column: AGENT_LOCK, IN_EXTERN_MSG new column: LOCK_EXPIRATION, IN_LIC_MON new column: SESSION_ID, IN_LM_SCREEN new column: SCRIPT_ID, IN_RS_WS_OP new column: IS_ASQ_CONSUMABLE, IN_RT_HOLD new column: HOLD_TYPE, IN_SC_CONNECTION new column: SERVER_SESSION_ID, IN_SC_CONNECTION new column: LAST_HEARTBEAT, IN_SERVICE_REGISTRATION new column: INSTANCE_NAME, IN_TIMING_DATA new column: IS_ERROR, IN_TIMING_DATA new column: EVENT_TIME, IN_VIEW new column: MOD_SESSION_ID, IN_VIEW new column: IS_DEFAULT, IN_WF_FLATTEN_QUEUE new column: ALLOW_JAVASCRIPT, IN_WF_ITEM new column: LOCK_SESSION_ID, IN_WF_PROCESS new column: IS_DELETED Removed tables: IN_CD_CLASS, IN_CD_FORM, IN_CD_PHSOB_FORM, IN_CD_RESULT, IN_CD_RUN, IN_FOLDER, IN_FOLDER_TYPE, IN_LOCK, IN_TIMING_REPORT, IN_WORKING_ROOT Removed columns in: IN_LIC_MON column: LIC_MON_STATE, IN_LIC_MON column: LAST_UPDATE, IN_LM_SCREEN column: DOC_CONTEXT_MAP_ID, IN_LM_SCREEN column: PROJ_CONTEXT_MAP_ID, IN_SC_SESSION column: SESSION_HASH, IN_SC_SESSION column: LAST_HEARTBEAT, IN_SC_SESSION column: LOGONS_ENABLED, IN_SC_SESSION column: LOGONS_MSG, IN_TIMING_DATA column: DATA_POINT_TYPE, IN_TIMING_SUMMARY column: TIMING_REPORT_ID, IN_TIMING_SUMMARY column: SEQ_NUM, IN_TIMING_SUMMARY column: EVENT_COUNT, IN_TIMING_SUMMARY column: AVG_COST, IN_TIMING_SUMMARY column: TOTAL_COST, IN_TIMING_SUMMARY column: STDDEV_COST, IN_TIMING_SUMMARY column: ERROR_COUNT, IN_TIMING_SUMMARY column: THRESHOLD_COUNT, IN_TIMING_SUMMARY column: AVG_DATA_SIZE, IN_TIMING_SUMMARY column: STDDEV_DATA_SIZE, IN_VIEW column: MOD_USR_ID

	Removed indexes in: DOC_IDX11, LIC_MON_IDX02, LIC_MON_IDX04, LM_SCREEN_IDX04, LM_SCREEN_IDX05, PROJ_IDX_11, SC_SESSION_IDX02, SC_SESSION_IDX04, _IDX02
Incremental 6.6_to_6.7.0.2355.sql (continued)	Altered indexes: DOC_IDX10, DOC_IDX12, DOC_IDX2, DOC_IDX4, DOC_IDX7, DOC_IDX81, DOC_IDX82, DOC_IDX83, DOC_IDX84, DOC_IDX85, DOC_IDX9, IR_IDX02, IR_IDX03, LIC_MON_IDX03, PROJ_IDX_02 PROJ_IDX_06, PROJ_IDX_06, PROJ_IDX_07, PROJ_IDX_09 PROJ_IDX_10, TASK_IDX05, TIMING_D_IDX02, TIMING_S_IDX02, WF_PROCESS_IDX_03 Removed foreign keys: FK_IR_CI_ID, FK_IR_PI_ID, FK_LMS_DCM_ID, FK_LMS_PCM_ID, FK_TS_TR_ID Altered tables IN_INSTANCE, IN_TASK, IN_WF_PROCESS, IN_PRODUCT_MOD_HIST, DOC_TYPE_NAME Removed index: IN_INSTANCE_REL Index: IR_IDX02 IN_INSTANCE_REL Index: IR_IDX03
Incremental 6.7.0.2355_to_6.7.0.2475.sql	New Indexes: IN_INSTANCE Index: INSTANCE_IDX_06 IN_INSTANCE Index: INSTANCE_IDX_07 Column Nullability: IN_INSTANCE Column: CLASS_TYPE Nullable: TRUE Nullable: FALSE
Incremental 6.7.0.2475_to_6.7.0.2787.sql	Insert statements to create new System Drawers, Classes, and Instances for Batch and Retention. Update statements to update qualifying rows to use these new System Drawers for Batch and Retention. Created table: IN_EXTERN_MSG_GROUP Created INEMUSER schema with IN_EXTERN_MSG_SEQ table Oracle Only: IN_EXTERN_MSG_SEQ trigger IN_EXTERN_MSG_SEQUENCE sequence

Incremental 6.7.0.2787_to_6.7.0.2836.sql	Created index: IN_DRAWER Index: DRAWERS_IDX02
Incremental 6.7.0.2836_to_6.7.0.2922.sql	Created index: IN_DOC Index: DOC_IDX5 Removed index IN_DOC Index: DOC_IDX4
Incremental 6.7.0.2922_to_6.7.0.3009.sql	Created index: IN_INSTANCE Index: INSTANCE_IDX_08
Incremental 6.7.0.3009_to_6.7.0.3158.sql	Created indexes: IN_DOC_TYPE Index: DOC_TYPE_IDX4 IN_FORM Index: FORM_IDX03 IN_MACRO Index: MACRO_IDX02 IN_OSM_SET_REL Index: OSR_IDX02 IN_OUTPUT_PROFILE Index: OUTPUT_PROFILE_IDX03 IN_OUTPUT_PROFILE_FAX Index: OP_FAX_IDX02 IN_PROJ_TYPE Index: PROJ_TYPE_IDX_04 IN_RS_WS_OP Index: RS_WS_OP_IDX02 IN_RS_WS_SERVICE Index: RS_WS_SERVICE_IDX02 IN_RT_POLICY_OBJ_QUAL Index: RT_POQ_IDX03 IN_SC_HOLD_PRIV Index: SC_HP_IDX02 IN_SIG Index: SIG_IDX_07 IN_TASK_HIST Index: TASK_HIST_IDX03 IN_VSL_USR_VAR_CONSTRAINT_VAL Index: VSL_UVCV_IDX02 IN_WF_ITEM_HIST Index: WF_ITEM_HIST_IDX06 IN_WF_QUEUE_ATTR Index: QUEUE_ATTR_IDX02 Note After running this incremental, if desired, you can run the 6.7 to 7.0.5.860 rollup incremental.
Incremental 6.7.0.3158_to_6.7.0.3656.sql	Created index: IN_WF_ITEM Index: WF_ITEM_IDX_08
Rollup Incremental 6.7_to_7.0.5.860.sql	This rollup incremental upgrades the INUSER schema from 6.7.0.3158 or 6.7.0.3656 to 7.0.5.860 and applies to both Oracle and SQL Server. New Tables: IN_APPROVAL_SET_ITEM IN_DEPT_ACMICKLST_SHARE IN_DEPT_ALARM_SHARE IN_DEPT_APP_PLAN_SHARE IN_DEPT_CAPTURE_PROFILE_SHARE IN_DEPT_CAPTURE_SOURCE_SHARE IN_DEPT_DOCTYP_SHARE IN_DEPT_DOCTYPLST_SHARE IN_DEPT_DRAWER_SHARE IN_DEPT_ELEMENT_TYPE_SHARE IN_DEPT_FAX_RECIPIENT_SHARE IN_DEPT_FORM_SHARE

	IN_DEPT_GROUP_SHARE IN_DEPT_INSTCONNTYPE_SHARE IN_DEPT_LIST_ITEM_SHARE IN_DEPT_LIST_SHARE IN_DEPT_OUTPROF_SHARE IN_DEPT_PROJTYP_SHARE IN_DEPT_PROJTYP_LST_SHARE IN_DEPT_PROP_SHARE IN_DEPT_RC_CUTOFF_SHARE IN_DEPT_RT_AUTHORITY_SHARE IN_DEPT_RT_HOLD_SHARE IN_DEPT_RT_OFFLINE_LOC_SHARE IN_DEPT_RT_POLICY_SHARE IN_DEPT_RT_TIME_PERIOD_SHARE IN_DEPT_SEQUENCE_SHARE IN_DEPT_SUBOBTMPL_SHARE IN_DEPT_TASKTMPL_SHARE IN_DEPT_VIEW_SHARE IN_DEPT_VSL_RULE_SHARE IN_DEPT_WFPROC_SHARE IN_DEPT_WSDATADEF_SHARE IN_DEPT_WSDESIGN_SHARE IN_DEPT_WSFILE_SHARE IN_DEPT_WSPRES_SHARE IN_INSTANCE_CONN_REL IN_INSTANCE_CONN_SEQ_GRP IN_INSTANCE_CONN_SEQ_MBR IN_INSTANCE_CONN_TYPE IN_LIC_MON_HIST IN_LIC_MON_HIST_DETAIL IN_LIC_USR_GROUP IN_LIC_USR_GROUP_ALLOC IN_RC_CAPTURE_SOURCE_METADATA IN_RC_CUTOFF_INSTRUCTION IN_RC_FILE_PLAN_SESSION_LOCK IN_RC_NOTIFICATION_EVENT IN_RC_NOTIFICATION_SUBSCRIBER IN_RC_NOTIFICATION_VIEW IN_RC_PDF_METADATA IN_RC_PHOTO_METADATA IN_RC_RECORD_DOC IN_RC_RECORD_FOLDER IN_RC_SCANNED_METADATA IN_RC_WEB_METADATA IN_RT_APPROVAL_TEMPLATE_TYPE IN_RT_HOLD_RESOLVED_PROJ IN_RT_HOLD_RESOLVED_TYPE IN_SC_ACM_PICKLIST IN_SC_ACM_PICKLIST_CLASS IN_SC_ACM_PICKLIST_MEMBER IN_SC_ACM_PRIV IN_SC_INSTANCE_CONN_TYPE_PRIV IN_SC_RECORD_FOLDER_PRIV IN_SC_TRUSTED_PUBLIC_KEYS
	New Columns - Table: IN_CAPTURE_SOURCE_OUTLOOK:

	REMOVE_EMBEDDED_ATTACHMENTS INSTANCE_CONN_TYPE_ID New Indexes: Table: IN_ALARM Index: ALARM_IDX_04 Table: IN_CAPTURE_PROFILE Index: CAP_PROF_IDX05 Table: IN_CAPTURE_SOURCE Index: CAP_SRC_IDX02 Table: IN_CAPTURE_SOURCE_OUTLOOK Index: CAP_SO_IDX02 Table: IN_CONTEXT_MAP_ITEM_SRC Index: CMIS_IDX11 Table: IN_DEPT Index: DEPT_IDX03 Table: IN_DOC_TYPE Index: DOC_TYPE_IDX5 Table: IN_DOC_TYPE_LIST Index: DOC_TYPE_LIST_IDX_03 Table: IN_DRAWER Index: DRAWERS_IDX03 Table: IN_ELEMENT_TYPE Index: ET_IDX04 Table: IN_FAX_RECIPIENT Index: FAX_REC_IDX03 Table: IN_FORM Index: FORM_IDX04 Table: IN_LIC_MON Index: LIC_MON_IDX02 Table: IN_LIC_MON Index: LIC_MON_IDX04 Table: IN_LIC_MON Index: LIC_MON_IDX06 Table: IN_LIC_TOKEN Index: LIC_TOKEN_IDX04 Table: IN_LIST Index: LIST_IDX03 Table: IN_LIST_ITEM Index: LIST_ITEM_IDX05 Table: IN_LM_APP_PLAN Index: LM_AP_IDX04 Table: IN_OUTPUT_PROFILE Index: OUTPUT_PROFILE_IDX04 Table: IN_PHSOB Index: PHSOB_IDX08 Table: IN_PHSOB Index: PHSOB_IDX09 Table: IN_PROJ_TYPE Index: PROJ_TYPE_IDX_05 Table: IN_PROJ_TYPE_LIST Index: PTL_IDX03 Table: IN_PROP Index: PROP_IDX4 Table: IN_RT_AUTHORITY Index: RT_AUTH_IDX03 Table: IN_RT_HOLD Index: RT_HOLD_IDX03 Table: IN_RT_OFFLINE_LOC Index: RT_OL_IDX04 Table: IN_RT_POLICY Index: RT_POLICY_IDX04 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX05 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX06 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX07 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX08 Table: IN_RT_SET Index: RT_SET_IDX09 Table: IN_RT_SET Index: RT_SET_IDX10 Table: IN_RT_TIME_PERIOD Index: RT_TP_IDX03 Table: IN_SC_GROUP Index: SC_GROUP_IDX05 Table: IN_SC_GROUP Index: SC_GROUP_IDX06 Table: IN_SC_USR Index: SC_USR_IDX07 Table: IN_SEQUENCE Index: SEQUENCE_IDX02 Table: IN_SUBOB_TEMPL Index: SUBOB_TEMPL_IDX_05 Table: IN_TASK_TEMPLATE Index: TASK_TEMPL_IDX14 Table: IN_VIEW Index: VIEW_IDX09 Table: IN_VSL_RULE Index: RULE_IDX03 Table: IN_WF_INTEGRATION_QUEUE Index: WIQ_IDX04 Table: IN_WF_ITEM Index: WF_ITEM_IDX_14 Table: IN_WF_PROCESS Index: WF_PROCESS_IDX_04 Table: IN_WS_DATA_DEF Index: WS_DATA_DEF_IDX03 Table: IN_WS_FILE Index: WS_FILE_IDX_04 Table: IN_WS_PRES Index: WS_PRES_IDX_03 New Index Columns:
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	Table: IN_LIC_TOKEN Index: LIC_TOKEN_IDX02 Column: ACCESS_TIME Table: IN_PROJ_TYPE Index: PROJ_TYPE_IDX_02 Column: PROJ_TYPE_NAME New Foreign Keys: Table: IN_CAPTURE_SOURCE_OUTLOOK FKey: FK_CAPSO_ICT_ID Table: IN_CONTEXT_MAP_ITEM_SRC FKey: FK_CMIS_RC_ID Table: IN_ELEMENT_TYPE FKey: FK_ET_D_ID Table: IN_FAX_RECIPIENT FKey: FK_FR_D_ID Table: IN_LIC_MON FKey: FK_LIC_MON_AG_ID Table: IN_LIC_MON FKey: FK_LIC_MON_LUG_ID Table: IN_LIST_ITEM FKey: FK_LIST_ITEM_D_ID Table: IN_RT_AUTHORITY FKey: FK_RTA_D_ID Table: IN_RT_HOLD FKey: FK_RHOLD_D_ID Table: IN_RT_OFFLINE_LOC FKey: FK_RTOL_D_ID Table: IN_RT_POLICY FKey: FK_RP_D_ID Table: IN_RT_SET FKey: FK_RSET_PO_ID Table: IN_RT_TIME_PERIOD FKey: FK_RTTP_D_ID Table: IN_SC_USR FKey: FK_SCU_LUG_ID Table: IN_VSL_RULE FKey: FK_VR_D_ID Table: IN_WF_ITEM FKey: FK_WI_INSTANCE_ID New Columns: Table: IN_CAPTURE_SOURCE Column: CATEGORY Table: IN_CONTEXT_MAP_ITEM_SRC Column: RECORD_CATEGORY_ID Table: IN_DEPT Column: DEPT_PREFIX Table: IN_ELEMENT_TYPE Column: DEPT_ID Table: IN_FAX_RECIPIENT Column: DEPT_ID Table: IN_LIC_MON Column: CLIENT_TYPE Table: IN_LIC_MON Column: ALLOC_GROUP_ID Table: IN_LIC_MON Column: LIC_USR_GROUP_ID Table: IN_LIC_TOKEN Column: ACCESS_TIME Table: IN_LIST_ITEM Column: DEPT_ID Table: IN_LM_APP_PLAN Column: CATEGORY Table: IN_PHSOB Column: FILE_SIZE Table: IN_PHSOB Column: CHECKSUM Table: IN_PHSOB Column: CHECKSUM_TYPE Table: IN_PHSOB Column: VERIFY_TIME Table: IN_PHSOB Column: VERIFY_STATE Table: IN_PROJ Column: CLOSED_STATUS Table: IN_PROJ Column: IS_UNDER_POLICY Table: IN_PROJ Column: HAS_PHS_FILE_REF Table: IN_RT_AGENT_STATE Column: JOB_STATE Table: IN_RT_AGENT_STATE Column: LAST_RUN_TIME Table: IN_RT_AUTHORITY Column: DEPT_ID Table: IN_RT_HOLD Column: DEPT_ID Table: IN_RT_OFFLINE_LOC Column: DEPT_ID Table: IN_RT_POLICY Column: DEPT_ID Table: IN_RT_POLICY_OBJ Column: EST_CUTOFF_TIME Table: IN_RT_POLICY_OBJ Column: EST_CUTOFF_CALC_TIME Table: IN_RT_POLICY_OBJ Column: EST_DISPOSITION_TIME Table: IN_RT_POLICY_OBJ Column: EST_DISPOSITION_CALC_TIME Table: IN_RT_SET Column: POLICY_OBJ_ID Table: IN_RT_SET Column: PATH_OBJ_ID Table: IN_RT_TIME_PERIOD Column: DEPT_ID Table: IN_SC_GROUP Column: IS_GLOBALLY_VISIBLE Table: IN_SC_USR Column: LIC_USR_GROUP_ID
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	Table: IN_VSL_RULE Column: DEPT_ID Table: IN_WF_ITEM Column: INSTANCE_ID Removed Tables: IN_ADDENDUM_TEMPLATE IN_ADDENDUM_TEMPLATE_DATA IN_RC_ADDRESSEE IN_RC_FOLDER IN_RC_FOLDER_POLICY IN_RC_FOLDER_TYPE IN_RC_FOLDER_TYPE_LIST IN_RC_FOLDER_TYPE_LIST_MEMBER IN_RC_METADATA IN_RC_METADATA_ADDRESSEE IN_RC_METADATA_INSTANCE Removed Columns: Table: IN_AUDIT_TEMPLATE Column: DEPT_ID Table: IN_DEPT Column: IS_ACTIVE Table: IN_RS Column: DEPT_ID Table: IN_RT_HOLD_RESOLVED Column: HOLD_STATE Table: IN_SCRIPT Column: DEPT_ID Removed Indexes: Table: IN_OSM_TREE_CAS Index: OT_CAS_IDX03 Table: IN_RT_HOLD_RESOLVED Index: RT_HRES_IDX02 Table: IN_SC_GROUP Index: SC_GROUP_IDX04 Removed Index Columns: Table: IN_AUDIT_TEMPLATE Index: AT_IDX02 Column: TEMPLATE_NAME Table: IN_DOC_TYPE_LIST_REL Index: DTLR_IDX02 Column: SEQ_NUM Table: IN_LIC_MON Index: LIC_MON_IDX03 Column: LOGIN_TIME Table: IN_LM_SCREEN_CONTEXT_MAP Index: LM_SCM_IDX02 Column: SCREEN_ID Table: IN_SC_GROUP Index: SC_GROUP_IDX02 Column: GROUP_NAME Removed Foreign Keys: Table: IN_AUDIT_TEMPLATE FKey: FK_AT_D_ID Table: IN_PHSOB FKey: FK_PO_FORM_ID Table: IN_RS FKey: FK_RS_DEPT_ID Table: IN_SCRIPT FKey: FK_S_DEPT_ID Mismatch Column Names: Table: IN_CAPTURE_SOURCE_OUTLOOK Column: ATTACHMENT_MODE Column: STORAGE_MODE Table: IN_CAPTURE_SOURCE_OUTLOOK Column: AUTO_CAPTURE_MODE Column: CONTENT_MODE Table: IN_DOC Column: IS_PROTECTED Column: PROTECTION_STATUS Table: IN_DOC_TYPE Column: IS_RECORD_TYPE Column: CATEGORY Table: IN_PROJ Column: IS_PROTECTED Column: PROTECTION_STATUS
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	Mismatch Column Defaults: Table: IN_BATCH Column: PREP_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: QA_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: QA_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: REC_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: REC_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: VERIFY_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: VERIFY_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: LINK_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: LINK_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: PREP_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: QA_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: QA_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: REC_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: REC_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: VERIFY_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: VERIFY_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: LINK_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: LINK_COMPLETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_BATCH_ARCHIVE Column: DELETE_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_DOC Column: CHECK_OUT_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_DOC Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_DOC Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_DOC_HISTORY Column: ACTION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_DOC_TYPE Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_DOC_TYPE Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00
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	Table: IN_ERM_SPOOL Column: REPORT_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_ERM_SPOOL Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_ERM_SPOOL Column: UPLOAD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_ERM_SPOOL Column: IMPORT_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_EXTERN_MSG Column: START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_EXTERN_MSG Column: END_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: STATE_ENTERED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: CREATED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: INITIALIZED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: STARTED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: COMPLETED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: UPDATED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB Column: AUTO_RESUME_AT Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB_STATE Column: ENTERED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB_STATE Column: EXITED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB_STEP Column: STARTED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_JOB_STEP Column: COMPLETED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_LIC Column: EXPIRATION_DATE Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_LOGOB Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_LOGOB Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_MESSAGE Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_MESSAGE_QUEUE Column: LEASE_ACQUIRED_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_MESSAGE_QUEUE Column: LEASE_EXPIRATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_PHSOB Column: SCAN_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_PHSOB Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_PHSOB Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_PROJ Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_PROJ Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_PROJ_TYPE Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00
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	Table: IN_PROJ_TYPE Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_RT_SET Column: CUTOFF_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SC_SESSION Column: START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SC_SESSION Column: DISCONNECT_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SCRIPT Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SCRIPT Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SIG Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SUBOB Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SUBOB Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SUBOB_TEMPL Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_SUBOB_TEMPL Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_TASK Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_TASK Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_TASK Column: REVIEW_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_TASK_COMMENT Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_USR_KEY Column: VALID_FROM Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_USR_KEY Column: VALID_TO Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_USR_PROXY Column: BEGINNING_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_USR_PROXY Column: VALID_UNTIL_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_USR_PROXY_HIST Column: BEGINNING_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_USR_PROXY_HIST Column: VALID_UNTIL_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_VERSION Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_VERSION Column: MOD_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_VERSION Column: LAST_VIEW_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_VERSION Column: CHECK_IN_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM Column: QUEUE_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM Column: STATE_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM_ARCH Column: CREATION_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00
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	Table: IN_WF_ITEM_ARCH Column: QUEUE_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM_ARCH Column: STATE_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM_HIST Column: STATE_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_ITEM_HIST_ARCH Column: STATE_START_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Table: IN_WF_SCHEDULED_SCRIPT Column: SCRIPT_TIME Default: 1-JAN-1970 Default: 1970-01-01 00:00:00 Mismatch Column Lengths: Table: IN_MESSAGE Column: SENDER Length: 31 Length: 40 Table: IN_WF_INTEGRATION_MAP Column: PARAM_NAME Length: 512 Length: 128 Table: IN_WS_FILE Column: FILE_PATH Length: 512 Length: 450 Mismatch Column Nullable - Table: IN_APPROVAL_SET Column: PROJ_ID Nullable: FALSE Nullable: TRUE Mismatch Foreign Key Names: Table: IN_AUDIT_DETAIL FKey: IN_AD_AO_ID FKey: FK_AD_AO_ID Table: IN_LM_SE_WINDOWTEXT FKey: IN_LMSEWT_ELEMENT_ID FKey: FK_LMSEWT_ELEMENT_ID Table: IN_MESSAGE_QUEUE_MASTER FKey: R_423 FKey: FK_MQM_MQ Table: IN_PHSOB_CACHE FKey: IN_PC_P_ID FKey: FK_PC_P_ID Mismatch Index Name - Table: IN_FORM Index: XIE1IN_FORM Index: FORM_IDX02 Mismatch Index Uniqueness: Table: IN_DOC_TYPE_LIST_REL Index: DTLR_IDX02 Unique: TRUE Unique: FALSE Table: IN_FAX_RECIPIENT Index: FAX_REC_IDX02 Unique: FALSE Unique: TRUE Table: IN_LM_SCREEN_CONTEXT_MAP Index: LM_SCM_IDX02 Unique: FALSE Unique: TRUE Mismatch Index Column Names: Table: IN_AUDIT_TEMPLATE Index: AT_IDX02 Column: DEPT_ID Column: TEMPLATE_NAME Table: IN_DOC_TYPE Index: DOC_TYPE_IDX2 Column: IS_RECORD_TYPE Column: CATEGORY Table: IN_DOC_TYPE_LIST_REL Index: DTLR_IDX02 Column: PARENT_DOC_TYPE_LIST_ID Column: SEQ_NUM Table: IN_PROJ_TYPE Index: PROJ_TYPE_IDX_02 Column: PROJ_TYPE_NAME Column: CATEGORY Table: IN_SC_GROUP Index: SC_GROUP_IDX02 Column: DEPT_ID Column: GROUP_NAME
Rollup Incremental 6.8_to_7.0.5.860.sql	This rollup incremental upgrades the INUSER schema from 6.8.0.1477u or 6.8.0.1893u to 7.0.5.860u and applies to SQL Server only. New Tables:

	IN_APPROVAL_SET_ITEM
	IN_DEPT_ACMICKLST_SHARE
	IN_DEPT_ALARM_SHARE
	IN_DEPT_APP_PLAN_SHARE
	IN_DEPT_CAPTURE_PROFILE_SHARE
	IN_DEPT_CAPTURE_SOURCE_SHARE
	IN_DEPT_DOCTYP_SHARE
	IN_DEPT_DOCTYPLST_SHARE
	IN_DEPT_DRAWER_SHARE
	IN_DEPT_ELEMENT_TYPE_SHARE
	IN_DEPT_FAX_RECIPIENT_SHARE
	IN_DEPT_FORM_SHARE
	IN_DEPT_GROUP_SHARE
	IN_DEPT_INSTCONNTYPE_SHARE
	IN_DEPT_LIST_ITEM_SHARE
	IN_DEPT_LIST_SHARE
	IN_DEPT_OUTPROF_SHARE
	IN_DEPT_PROJTYP_SHARE
	IN_DEPT_PROJTYP_LST_SHARE
	IN_DEPT_PROP_SHARE
	IN_DEPT_RC_CUTOFF_SHARE
	IN_DEPT_RT_AUTHORITY_SHARE
	IN_DEPT_RT_HOLD_SHARE
	IN_DEPT_RT_OFFLINE_LOC_SHARE
	IN_DEPT_RT_POLICY_SHARE
	IN_DEPT_RT_TIME_PERIOD_SHARE
	IN_DEPT_SEQUENCE_SHARE
	IN_DEPT_SUBOBTMPL_SHARE
	IN_DEPT_TASKTMPL_SHARE
	IN_DEPT_VIEW_SHARE
	IN_DEPT_VSL_RULE_SHARE
	IN_DEPT_WFPROC_SHARE
	IN_DEPT_WSDATADef_SHARE
	IN_DEPT_WSDESIGN_SHARE
	IN_DEPT_WSFILE_SHARE
	IN_DEPT_WSPRES_SHARE
	IN_INSTANCE_CONN_REL
	IN_INSTANCE_CONN_SEQ_GRP
	IN_INSTANCE_CONN_SEQ_MBR
	IN_INSTANCE_CONN_TYPE
	IN_LIC_MON_HIST
	IN_LIC_MON_HIST_DETAIL
	IN_LIC_USR_GROUP
	IN_LIC_USR_GROUP_ALLOC
	IN_RC_CAPTURE_SOURCE_METADATA
	IN_RC_CUTOFF_INSTRUCTION
	IN_RC_FILE_PLAN_SESSION_LOCK
	IN_RC_NOTIFICATION_EVENT
	IN_RC_NOTIFICATION_SUBSCRIBER
	IN_RC_NOTIFICATION_VIEW
	IN_RC_PDF_METADATA
	IN_RC_PHOTO_METADATA
	IN_RC_RECORD_DOC
	IN_RC_RECORD_FOLDER
	IN_RC_SCANNED_METADATA
	IN_RC_WEB_METADATA
	IN_RT_APPROVAL_TEMPLATE_TYPE
	IN_RT_HOLD_RESOLVED_PROJ
	IN_RT_HOLD_RESOLVED_TYPE

	IN_SC_ACM_PICKLIST IN_SC_ACM_PICKLIST_CLASS IN_SC_ACM_PICKLIST_MEMBER IN_SC_ACM_PRIV IN_SC_INSTANCE_CONN_TYPE_PRIV IN_SC_RECORD_FOLDER_PRIV IN_SC_TRUSTED_PUBLIC_KEYS New Columns: Table: IN_CAPTURE_SOURCE_OUTLOOK Column: REMOVE_EMBEDDED_ATTACHMENTS Table: IN_CAPTURE_SOURCE_OUTLOOK Column: INSTANCE_CONN_TYPE_ID New Indexes: Table: IN_ALARM Index: ALARM_IDX_04 Table: IN_CAPTURE_PROFILE Index: CAP_PROF_IDX05 Table: IN_CAPTURE_SOURCE Index: CAP_SRC_IDX02 Table: IN_CAPTURE_SOURCE_OUTLOOK Index: CAP_SO_IDX02 Table: IN_CONTEXT_MAP_ITEM_SRC Index: CMIS_IDX11 Table: IN_DEPT Index: DEPT_IDX03 Table: IN_DOC_TYPE Index: DOC_TYPE_IDX5 Table: IN_DOC_TYPE_LIST Index: DOC_TYPE_LIST_IDX_03 Table: IN_DRAWER Index: DRAWERS_IDX03 Table: IN_ELEMENT_TYPE Index: ET_IDX04 Table: IN_FAX_RECIPIENT Index: FAX_REC_IDX03 Table: IN_FORM Index: FORM_IDX04 Table: IN_LIC_MON Index: LIC_MON_IDX02 Table: IN_LIC_MON Index: LIC_MON_IDX04 Table: IN_LIC_MON Index: LIC_MON_IDX06 Table: IN_LIC_TOKEN Index: LIC_TOKEN_IDX04 Table: IN_LIST Index: LIST_IDX03 Table: IN_LIST_ITEM Index: LIST_ITEM_IDX05 Table: IN_LM_APP_PLAN Index: LM_AP_IDX04 Table: IN_OUTPUT_PROFILE Index: OUTPUT_PROFILE_IDX04 Table: IN_PHSOB Index: PHSOB_IDX08 Table: IN_PHSOB Index: PHSOB_IDX09 Table: IN_PROJ_TYPE Index: PROJ_TYPE_IDX_05 Table: IN_PROJ_TYPE_LIST Index: PTL_IDX03 Table: IN_PROP Index: PROP_IDX4 Table: IN_RT_AUTHORITY Index: RT_AUTH_IDX03 Table: IN_RT_HOLD Index: RT_HOLD_IDX03 Table: IN_RT_OFFLINE_LOC Index: RT_OL_IDX04 Table: IN_RT_POLICY Index: RT_POLICY_IDX04 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX05 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX06 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX07 Table: IN_RT_POLICY_OBJ Index: RT_PO_IDX08 Table: IN_RT_SET Index: RT_SET_IDX09 Table: IN_RT_SET Index: RT_SET_IDX10 Table: IN_RT_TIME_PERIOD Index: RT_TP_IDX03 Table: IN_SC_GROUP Index: SC_GROUP_IDX05 Table: IN_SC_GROUP Index: SC_GROUP_IDX06 Table: IN_SC_USR Index: SC_USR_IDX07 Table: IN_SEQUENCE Index: SEQUENCE_IDX02 Table: IN_SUBOB_TEMPL Index: SUBOB_TEMPL_IDX_05 Table: IN_TASK_TEMPLATE Index: TASK_TEMPL_IDX14
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	Table: IN_VIEW Index: VIEW_IDX09 Table: IN_VSL_RULE Index: RULE_IDX03 Table: IN_WF_INTEGRATION_QUEUE Index: WIQ_IDX04 Table: IN_WF_ITEM Index: WF_ITEM_IDX_14 Table: IN_WF_PROCESS Index: WF_PROCESS_IDX_04 Table: IN_WS_DATA_DEF Index: WS_DATA_DEF_IDX03 Table: IN_WS_FILE Index: WS_FILE_IDX_04 Table: IN_WS_PRES Index: WS_PRES_IDX_03 New Index Columns: Table: IN_LIC_TOKEN Index: LIC_TOKEN_IDX02 Column: ACCESS_TIME Table: IN_PROJ_TYPE Index: PROJ_TYPE_IDX_02 Column: PROJ_TYPE_NAME New Foreign Keys: Table: IN_CAPTURE_SOURCE_OUTLOOK FKey: FK_CAPSO_ICT_ID Table: IN_CONTEXT_MAP_ITEM_SRC FKey: FK_CMIS_RC_ID Table: IN_ELEMENT_TYPE FKey: FK_ET_D_ID Table: IN_FAX_RECIPIENT FKey: FK_FR_D_ID Table: IN_LIC_MON FKey: FK_LIC_MON_AG_ID Table: IN_LIC_MON FKey: FK_LIC_MON_LUG_ID Table: IN_LIST_ITEM FKey: FK_LIST_ITEM_D_ID Table: IN_RT_AUTHORITY FKey: FK_RTA_D_ID Table: IN_RT_HOLD FKey: FK_RHOLD_D_ID Table: IN_RT_OFFLINE_LOC FKey: FK_RTOL_D_ID Table: IN_RT_POLICY FKey: FK_RP_D_ID Table: IN_RT_SET FKey: FK_RSET_PO_ID Table: IN_RT_TIME_PERIOD FKey: FK_RTTP_D_ID Table: IN_SC_USR FKey: FK_SCU_LUG_ID Table: IN_VSL_RULE FKey: FK_VR_D_ID Table: IN_WF_ITEM FKey: FK_WI_INSTANCE_ID New Columns: Table: IN_CAPTURE_SOURCE Column: CATEGORY Table: IN_CONTEXT_MAP_ITEM_SRC Column: RECORD_CATEGORY_ID Table: IN_DEPT Column: DEPT_PREFIX Table: IN_ELEMENT_TYPE Column: DEPT_ID Table: IN_FAX_RECIPIENT Column: DEPT_ID Table: IN_LIC_MON Column: CLIENT_TYPE Table: IN_LIC_MON Column: ALLOC_GROUP_ID Table: IN_LIC_MON Column: LIC_USR_GROUP_ID Table: IN_LIC_TOKEN Column: ACCESS_TIME Table: IN_LIST_ITEM Column: DEPT_ID Table: IN_LM_APP_PLAN Column: CATEGORY Table: IN_PHSOB Column: FILE_SIZE Table: IN_PHSOB Column: CHECKSUM Table: IN_PHSOB Column: CHECKSUM_TYPE Table: IN_PHSOB Column: VERIFY_TIME Table: IN_PHSOB Column: VERIFY_STATE Table: IN_PROJ Column: CLOSED_STATUS Table: IN_PROJ Column: IS_UNDER_POLICY Table: IN_PROJ Column: HAS_PHS_FILE_REF Table: IN_RT_AGENT_STATE Column: JOB_STATE Table: IN_RT_AGENT_STATE Column: LAST_RUN_TIME Table: IN_RT_AUTHORITY Column: DEPT_ID Table: IN_RT_HOLD Column: DEPT_ID
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	Table: IN_RT_OFFLINE_LOC Column: DEPT_ID Table: IN_RT_POLICY Column: DEPT_ID Table: IN_RT_POLICY_OBJ Column: EST_CUTOFF_TIME Table: IN_RT_POLICY_OBJ Column: EST_CUTOFF_CALC_TIME Table: IN_RT_POLICY_OBJ Column: EST_DISPOSITION_TIME Table: IN_RT_POLICY_OBJ Column: EST_DISPOSITION_CALC_TIME Table: IN_RT_SET Column: POLICY_OBJ_ID Table: IN_RT_SET Column: PATH_OBJ_ID Table: IN_RT_TIME_PERIOD Column: DEPT_ID Table: IN_SC_GROUP Column: IS_GLOBALLY_VISIBLE Table: IN_SC_USR Column: LIC_USR_GROUP_ID Table: IN_VSL_RULE Column: DEPT_ID Table: IN_WF_ITEM Column: INSTANCE_ID Removed Tables: IN_ADDENDUM_TEMPLATE IN_ADDENDUM_TEMPLATE_DATA IN_RC_ADDRESSEE IN_RC_FOLDER IN_RC_FOLDER_POLICY IN_RC_FOLDER_TYPE IN_RC_FOLDER_TYPE_LIST IN_RC_FOLDER_TYPE_LIST_MEMBER IN_RC_METADATA IN_RC_METADATA_ADDRESSEE IN_RC_METADATA_INSTANCE Removed Columns: Table: IN_AUDIT_TEMPLATE Column: DEPT_ID Table: IN_DEPT Column: IS_ACTIVE Table: IN_RS Column: DEPT_ID Table: IN_RT_HOLD_RESOLVED Column: HOLD_STATE Table: IN_SCRIPT Column: DEPT_ID Remove Indexes: Table: IN_RT_HOLD_RESOLVED Index: RT_HRES_IDX02 Table: IN_SC_GROUP Index: SC_GROUP_IDX04 Removed Index Columns: Table: IN_AUDIT_TEMPLATE Index: AT_IDX02 Column: TEMPLATE_NAME Table: IN_DOC_TYPE_LIST_REL Index: DTLR_IDX02 Column: SEQ_NUM Table: IN_LIC_MON Index: LIC_MON_IDX03 Column: LOGIN_TIME Table: IN_LM_SCREEN_CONTEXT_MAP Index: LM_SCM_IDX02 Column: SCREEN_ID Table: IN_SC_GROUP Index: SC_GROUP_IDX02 Column: GROUP_NAME Removed Foreign Keys: Table: IN_AUDIT_TEMPLATE FKey: FK_AT_D_ID Table: IN_PHSOB FKey: FK_PO_FORM_ID Table: IN_RS FKey: FK_RS_DEPT_ID Table: IN_SCRIPT FKey: FK_S_DEPT_ID Mismatch Column Names:
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	Table: IN_CAPTURE_SOURCE_OUTLOOK Column: ATTACHMENT_MODE Column: STORAGE_MODE Table: IN_CAPTURE_SOURCE_OUTLOOK Column: AUTO_CAPTURE_MODE Column: CONTENT_MODE Table: IN_DOC Column: IS_PROTECTED Column: PROTECTION_STATUS Table: IN_DOC_TYPE Column: IS_RECORD_TYPE Column: CATEGORY Table: IN_PROJ Column: IS_PROTECTED Column: PROTECTION_STATUS Mismatch Column Length - Table: IN_MESSAGE Column: SENDER Length: 31 Length: 40 Mismatch Column Nullable - Table: IN_APPROVAL_SET Column: PROJ_ID Nullable: FALSE Nullable: TRUE Mismatch Index Name - Table: IN_FORM Index: XIE1IN_FORM Index: FORM_IDX02 Mismatch Index Uniqueness: Table: IN_DOC_TYPE_LIST_REL Index: DTLR_IDX02 Unique: TRUE Unique: FALSE Table: IN_FAX_RECIPIENT Index: FAX_REC_IDX02 Unique: FALSE Unique: TRUE Table: IN_LM_SCREEN_CONTEXT_MAP Index: LM_SCM_IDX02 Unique: FALSE Unique: TRUE Mismatch Index Column Names: Table: IN_AUDIT_TEMPLATE Index: AT_IDX02 Column: DEPT_ID Column: TEMPLATE_NAME Table: IN_DOC_TYPE Index: DOC_TYPE_IDX2 Column: IS_RECORD_TYPE Column: CATEGORY Table: IN_DOC_TYPE_LIST_REL Index: DTLR_IDX02 Column: PARENT_DOC_TYPE_LIST_ID Column: SEQ_NUM Table: IN_PROJ_TYPE Index: PROJ_TYPE_IDX_02 Column: PROJ_TYPE_NAME Column: CATEGORY Table: IN_SC_GROUP Index: SC_GROUP_IDX02 Column: DEPT_ID Column: GROUP_NAME
Incremental 7.0.5.767_to_7.0.5.860	No schema changes are included in this incremental. The incrementals contain conditional SQL to rename any primary key indexes that do not have the same name as the actual primary key constraint. Note This only affects Oracle databases and fixes any constraint/index name inconsistencies for schemas that started on version 6.4 or earlier. This issue does not exist for SQL Server databases, so the SS incrementals only contain the DML to update the schema version number.
Incremental 7.1.0.1	Created Tables: IN_OSM_PLUGIN IN_OSM_PLUGIN_PROP IN_OSM_TREE_EXT IN_OSM_TREE_EXT_PROP

	Created Columns - Table: IN_PHSOB: PHSOB_VER ENCRYPTION_TYPE Removed Columns – Table: IN_OSM_TREE MIRRORING_ON RETRIEVE_TREE TREE_PATH TREE_PATH_MIRROR NEXT_SLOT MEDIA_TYPE MIRROR_MEDIA_TYPE FILES_PER_DIR RETRIES DELAY OSM_INTEGRATION OBJ_COUNT
Incremental 7.1.0.2	Created Table: IN_CAPTURE_SOURCE_PROP Removed Tables: IN_APPLET IN_CAPTURE_SOURCE_FILE IN_CAPTURE_SOURCE_SCANNER IN_DEP_APPROVAL_DEF_USR IN_DEP_CONTEXT_MAP_ITEM IN_DEP_USR_APP_PLAN_PRIV IN_DEP_USR_BATCH_CREATOR_PRIV IN_DEP_USR_BATCH_DOC_TYPE_P IN_DEP_USR_BATCH_DRAWER_PRIV IN_DEP_USR_CAPTURE_PROFILE_P IN_DEP_USR_CAPTURE_SOURCE_P IN_DEP_USR_DOC_TYPE_PRIV IN_DEP_USR_DRAWER_PRIV IN_DEP_USR_GROUP IN_DEP_USR_OUTPUT_PROFILE IN_DEP_USR_PRIV IN_DEP_USR_PROCESS_PRIV IN_DEP_USR_PROJ_TYPE_PRIV IN_DEP_USR_QUEUE_PRIV IN_DEP_USR_ROUTE_PRIV IN_DEP_USR_ST_PRES_PRIV IN_DEP_USR_SUBOB_TEMPL_PRIV IN_DEP_USR_TASK_TEMPLATE_P IN_DEP_USR_VIEW_PRIV IN_DEVICE_KOFAX IN_DEVICE_PIXEL IN_DEVICE_TWAIN IN_KOFAX_ADV_PROP IN_SCAN_DEVICE IN_TEMPLATE IN_TEMPLATE_CLIPBOARD IN_TEMPLATE_HYPERLEARN

	IN_TEMPLATE_HYPERLEARN_KEY IN_TEMPLATE_IE_KEY IN_TEMPLATE_KEY_PROPS IN_TEMPLATE_MSWINDOWS IN_TEMPLATE_MSWINDOWS_KEY IN_TEMPLATE_NEURAL_NET_KEY IN_TEMPLATE_PROPS IN_TEMPLATE_SCRIPT IN_TEMPLATE_TERMCAP_KEY IN_TEMPLATE_WINDOWTEXT IN_TEMPLATE_WINDOWTEXT_KEY IN_USR_APPLET_PRIV IN_USR_LIST IN_USR_LIST_ITEM IN_USR_PROXY IN_USR_PROXY_HIST IN_USR_SUBOB_PRIV
Incremental 7.1.0.3	Created Index - Table: IN_OSM_TREE: OSM_TREE_IDX04 Created Column - Table: IN_OSM_TREE: OSM_TREE_NAME Removed Tables: IN_CAPTURE_IP_FILTER IN_IMAGE_PROC_FILTER IN_IP_FILTER_PROP Removed Column - Table: IN_OSM_REDIR: REDIR_LOGIC
Incremental 7.1.0.4	Created Column - Table: IN_PHSOB_CACHE: ENCRYPTION_TYPE
Incremental 7.1.1.0	Created Index - Table: IN_LIC_TOKEN: LIC_TOKEN_IDX05 Created Column - Table: IN_LIC_TOKEN: HWFP Removed Table: IN_LIC_TOKEN_HWFP
Incremental 7.1.1.1	Created Column - Table: IN_WF_QUEUE_ATTR: IS_RFA_DEST
Incremental 7.1.1.2	New Index - Table: IN_OSM_SET:

	OSM_CTRL_IDX06 New Column - Table: IN_OSM_SET: IS_REFERENCE_SET Removed Table: IN_PHSOB_GROUP Primary Key Constraint and Index Renames This incremental includes the renaming of the primary key constraint for most of the tables in the schema to implement a standard naming convention for all primary key constraints. Note When changing the name of the primary key constraint, the supporting primary key indexes are renamed to match the constraint name.
Incremental 7.1.1.3	Mismatch Column Type - Table: IN_SCRIPT Column: DATA Type: TEXT Type: VARCHAR(MAX)
Incremental 7.1.5.2	Removed Tables: IN_MESSAGE IN_MESSAGE_QUEUE IN_MESSAGE_QUEUE_MASTER
Incremental 7.2.0.0	Removed Tables: IN_CONTENT IN_CONTENT_BATCH IN_DOC_CONTENT
Incremental 7.2.2.0	Reordered Columns in the IN_DOC table. Column Renames: Table: IN_DOC Original Value: "DELETION_STATUS" New Value: "EVENT_REVISION" Column Nullability: Table: IN_DOC Column: "INSTANCE_ID" Original Value: "NULL" New Value: "NOT NULL" Table: IN_DOC Column: "DRAWER_ID" Original Value: "NULL" New Value: "NOT NULL" Table: IN_DOC Column: "DOC_TYPE_ID" Original Value: "NULL" New Value: "NOT NULL" Columns Dropped: Table: IN_DOC Column: "CREATION_USR_ID" Table: IN_DOC Column: "CREATION_TIME" Table: IN_DOC Column: "MOD_USR_ID"

	Table: IN_DOC Column: "MOD_TIME" Table: IN_DOC Column: "DELETION_TIME" Table: IN_DOC Column: "DELETION_USR_ID" Indexes Dropped: DOC_IDX3 DOC_IDX10 DOC_IDX12
Incremental 7.2.3.0	New Table: IN_MESSAGE New Index - Table: IN_PHSOB Index: PHSOB_IDX10 New Sequence: IN_MESSAGE_SEQUENCE Indexes Dropped: Table: IN_PHSOB Index: PHSOB_IDX04 Table: IN_PHSOB Index: PHSOB_IDX05 Table: IN_PHSOB Index: PHSOB_IDX08
7.3.0	No Schema Changes, so no incremental
Incremental 7.4.0.3	New Tables: IN_LIC_PACKAGE IN_LIC_PACKAGE_CLAIM IN_SC_LOGIN_PROFILE IN_SC_LOGIN_PROFILE_TRUSTED_PK Column Removed: Table: IN_TASK_TEMPLATE Column: ATTACH_WEBNOW_LINK Renamed Indexes: Table: IN_INSTANCE_PROP Index: Original Name: "INST_PROP_IDX_03" New Name: "INSTANCE_PROP_IDX_03" Table: IN_INSTANCE_PROP Index: Original Name: "INST_PROP_IDX_04" New Name: "INSTANCE_PROP_IDX_04" New Indexes: Table: IN_LIC_MON Index: LIC_MON_IDX07 Table: IN_INSTANCE_PROP Filtered Index: INSTANCE_PROP_IDX_01 - Filter on WHERE (IS_NULL = 1) (SQL Server and PostgreSQL Only)

	Indexes Removed: Table: IN_ERM_DOC Index: CN_DOC_IDX02 Table: IN_ERM_DOC Index: CN_DOC_IDX04 Table: IN_ERM_DOC Index: CN_DOC_IDX05 Table: IN_ERM_DOC Index: CN_DOC_IDX06 Table: IN_ERM_DOC Index: CN_DOC_IDX07 Table: IN_ERM_DOC Index: CN_DOC_IDX08 Table: IN_ERM_DOC Index: CN_DOC_IDX09 Table: IN_ERM_DOC Index: CN_DOC_IDX10 Table: IN_ERM_DOC Index: CN_DOC_IDX11 Table: IN_ERM_DOC Index: CN_DOC_IDX12 Table: IN_ERM_DOC Index: CN_DOC_IDX13 Table: IN_ERM_REPORT_COL Index: CN_REPORT_COL_IDX02 Table: IN_ERM_SPOOL Index: CN_SPOOL_IDX03 Table: IN_ERM_SPOOL Index: CN_SPOOL_IDX05 SQL Server and PostgreSQL Only Indexes Recreated as Filtered Indexes Table: IN_INSTANCE_PROP Index: INSTANCE_PROP_IDX_02 - Filter on WHERE (STRING_VAL IS NOT NULL) Table: IN_INSTANCE_PROP Index: INSTANCE_PROP_IDX_03 - Filter on WHERE (IS_NULL = 0) Table: IN_INSTANCE_PROP Index: INSTANCE_PROP_IDX_04 - Filter on WHERE (TIME_VAL <> '1970-01-01 00:00:00.000')
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Appendix B: INI Changes by Release

Use the following table to understand the INI changes required by each release. The installation wizard in Windows updates your INI files. In Linux, you must manually add any INI changes you need that are listed in the following list.

INI changes from 6.6.x to 6.7.x

File Name	INI Section Heading	Description of Change
inow.ini	[General]	Add setting: resource.monitor.query.timeout
	[Message Queuing]	Add settings: mq.agent.ip.address mq.agent.ip.port mq.agent.ip.general.override
	[Statistics]	Add settings: stats.image.log.type stats.image.timer.period stats.image.start.time stats.image.action.length

	[Envoy] New section	Add setting: date.time.zone.enabled
	[Digital Signature] Remove section	Remove section and settings.
	[OSM]	Remove setting: centera.temp.dir
	[Directory Locations]	Remove setting: user.dir
		Add setting: logging.dir
	[Licenses] New section	Add settings: combo.imagenow.number combo.webnow.number combo.interact.desktop.number
	[Memory] New section	Add setting: receive.memory.threshold.mb
	[Folders] New section	Add setting: search.in.subfolders.enable
inserver.ini	[General]	Remove setting: inowd.heartbeat.timeout
		Add settings: client.autotimeout.warning client.alwaysdeletelocalcopy thumbnail.max.size thumbnail.batch.size num.crossnode.cache.workers navigation.thumbnails.enabled
		Changed setting functionality: num.workers You can adjust the number of worker threads during runtime without having to stop and restart the Perceptive Content Server.

	[Network]	Add settings: inowd.Primary.port inowd.Secondary.port
	[AutoUpdate]	Remove the section and associated settings.
	[Timing]	Remove settings: timing.collection.interval timing.data.life timing.state.removal.period
		Add settings: timing.threshold.enabled timing.detail.purge.enabled timing.detail.retention.period timing.aggregation.enabled timing.aggregate.purge.enabled timing.aggregate.retention.period
	[Business Insight]	Add setting: business.insight.max.output.default
	[Folders] New Section	Add settings: folders.move.maximum.results folders.path.delimiter
	[LearnMode] New Section	Add setting: pretrieve.interval
inserverAlarm.ini	[General]	Remove setting: polling.interval
		Add setting: num.workers
	[Modem] Remove Section	Remove section and settings.
	[Email]	Remove settings: smtp.server port

	[Logging]	Remove setting: debug.level.pipe
inserverBatch.ini	[General]	Remove settings: poll.interval number.of.server.agents
		Add setting: remove.old.service
	[Logging]	Remove setting: debug.level.pipe
inserverEM.ini	[General]	Add setting: remove.old.service
	[Expire] New Section	Add settings: reset.expired.messages minutes.to.expire
inserverFS.ini	[General]	Remove settings: num.transfer.workers num.osm.replication.workers max.osm.replication.retries
		Add settings: remove.old.service no.work.delay.max.seconds
inserverIMP.ini	[Key Mapping]	Remove settings: Folder Tab F3 F4 F5

		Add settings: field1 field2 field3 field4 field5
	[DATA_CAPTURE]	Remove settings: capture.template.<n>
		Add setting: import.DC.Template
	[Remote]	Add settings: heartbeat.interval socket.login.timeout socket.default.timeout reconnect.interval
		Remove settings: serial.number.format serial.number.startvalue bypass.write.cache
	[Serial Number] New Section	Add settings: serial.number.format serial.number.startvalue
	[OSM] New Section	Add setting: bypass.write.cache
inserverJob.ini	[General]	Add setting: remove.old.service
	[Logging]	Remove setting: debug.level.pipe
inserverMonitor.ini	[Logging]	Remove setting: debug.level.pipe
inserverMQ.ini	[General]	Add setting: remove.old.service

		Remove settings: sleep.interval.max sleep.interval.between.send
		Changed setting functionality: num.workers You can adjust the number of worker threads during runtime without having to stop and restart the Perceptive Content Server.
	[Logging]	Remove setting: debug.level.pipe
	[Network]	Add settings: ip.bind.address ip.bind.port
inserverNotification.ini	[General]	Add setting: remove.old.service
	[Logging]	Remove setting: debug.level.pipe
inserverOSM.ini	[General] New Section	Add settings: num.transfer.workers num.osm.replication.workers max.osm.replication.retries num.osm.background.workers osm.cleanup.interval.seconds max.osm.concurrent.leases remove.old.service
	[Network]	Changed setting functionality: num.connection.workers You can adjust the number of worker threads during runtime without having to stop and restart the Perceptive Content Server.
inserverRetention.ini	[Notification] New Section	Add settings: notify.frequency notify.weekly.day notify.monthly.day notify.yearly.month notify.yearly.day

	[General]	Add setting: work.timeout.seconds remove.old.service
	[Logging]	Remove setting: debug.level.pipe
inserverTask.ini	[General]	Add setting: remove.old.service
	[Logging]	Remove setting: debug.level.pipe
inserverWorkflow.ini	[General]	Add settings: num.crossnode.cache.workers remove.old.service
		Changed setting functionality: num.workers You can adjust the number of worker threads during runtime without having to stop and restart the Perceptive Content Server.
	[Workload]	Changed the names of the settings in this section to: retention.removal.schedule.mode retention.removal.schedule.start retention.removal.schedule.duration
		Remove setting: work.load
	[Logging]	Remove setting: debug.level.pipe

INI changes from 6.7.x to 7.0.x

File Name	INI Section Heading	Description of Change
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inow.ini	[ODBC]	Changed setting functionality: odbc.dsn Remove Setting: odbc.grid.max.fetch.count
	[Licenses]	Remove Setting: combo.imagenow.number combo.webnow.number combo.interact.desktop.number Add Setting: hardware.amazonec2.support
	[Logon Control]	Change setting functionality: LDAP.ssl.cert.path
	[Full Text]	Change Setting Condition: full.text.integration
	[Migration] New Section	Add Setting: migration.enabled
	[iScprit] New Section	Add Setting: iscript.encoding
	[Records] New Section	Add Setting: records.retain.metadata declare.record.default.organization
inserver.ini	[ClientINI]	Remove Setting: client.ini.file.path client.ini.search.grid.file.path

	[Business Insight]	Remove Setting: business.insight.address Add Setting: business.insight.url business.insight.dispatcher
	[LearnMode]	Change Setting Functionality: Pretrieve.interval
	[Departments] New Section	Add Setting: department.labeling.enabled department.labeling.separator
inserverFT.ini New File	[General] New Section	Add Setting: fulltext.workqueue.suspenduntilindexed num.job.workers remove.old.service
	[Logging] New Section	Add Setting: debug.level.file
	[Legacy] New Section	Add Setting: enabled begin.creation.time end.creation.time minutes.between.legacy.submissions legacy.submission.group.size mime.type.filter drawer.filter field1.filter field2.filter field3.filter field4.filter field5.filter doc.type.filter

	[Network]	Add Setting: local.hostname.useoverride local.hostname.override remote.hostname.useoverride remote.hostname.override.OLDNAME active.threshold num.connection.workers num.active.monitor.threads poll.delay.msec ip.port ip.address heartbeat.timeout
inserverIMP.ini	[General]	Add Setting: file.encoding
	[Mode DOD_RECORD] New Section	Add Setting: manifest.file.ext dod.file.retry.attempts dod.file.status.report file.plan.name record.type.name record.folder.type.name
	[DOD Record Metadata Mapping] New Section	Add Setting: field1 field2 field3 field4 field5
	[Key Mapping]	Changed Setting Functionality: drawer field1 field2 field3 field4 field5

inserverMonitor.ini	[Defaults]	Remove Setting: Defaults.Memory Defaults.CpuUsage Defaults.NonResponsiveTime Defaults.TimeSinceStart Defaults.Threads Defaults.GDI Defaults.Handles Defaults.DumpDirectory Defaults.ToEmailAddress Defaults.FromEmailAddress Defaults.Program
	[Email] Remove Section	Remove Setting: Email.SmtServer Email.Port
	[Ignore] Remove Section	Remove Setting: Ignore.AllNonWatchedProcesses
	[Defines]	Remove Setting: iConvert iUpgrade
	[Profiles]	Profile1.Event1.Action1.FailedAction1 Profile2.Event1 Profile2.Event1.Action1
	[Processes]	Changed Setting Condition: FullTextAgent MonitorAgent.Event1.Time MonitorAgent.Event1.Day Remove Setting: iConvert iUpgrade

inserverOSM.ini	[Verification] New Section	Add Setting: background.validation.enabled min.verify.interval.weeks max.creation.age.weeks
inserverRetention.ini	[Remove]	Add Setting: removed.from.hold.group.size
	[Notification]	Add Setting: due.for.review.group.size due.for.review.interval.hours
	[Cutoff] New Section	Add Setting: delay.between.cutoff max.items.to.cutoff

INI changes from 7.0.x to 7.1.x

File Name	INI Section Heading	Description of Change
Agent's Configuration	[Network]	Remove Setting: mq.subscriber.active.threshold mq.subscriber.num.active.monitor.threads mq.subscriber.poll.delay.msec mq.subscriber.heartbeat.timeout
inmc.ini	[Remote]	Add File and Setting: socket.default.timeout
inow.ini	[General]	Add Setting: num.crossnode.cache.recovery.attempts

	[Network]	Remove Setting: - mq.acknowledgements.disabled.setting - mq.ack.monitor.delay - mq.ack.timeout - mq.seconds.between.async.connection.attempts - remote.mq.override.enabled - remote.mq.override.instance.name - mq.heartbeat.interval Add Setting: - encryption.symmetric.min.key.strength - encryption.symmetric.max.key.strength - encryption.asymmetric.min.key.strength - encryption.asymmetric.max.key.strength
	[Message Queuing]	Remove Setting: - mq.agent.ip.address - mq.agent.ip.port Add Setting: - mq.host - mq.port - mq.vhost - mq.username - mq.password - mq.password.encrypted - mq.secure.enable - mq.validate.server.certificate.enable - mq.client.reconnect.interval - mq.client.host - mq.client.username - mq.client.password - mq.client.password.encrypted - mq.client.secure.enable - mq.client.validate.server.certificate.enable

	[ODBC]	Remove Setting: odbc.userid odbc.password Add Setting: odbc.user.password odbc.user.password.encrypted odbc.user.id
inserverMonitor.ini	[Defines]	Add Setting: FileSystemAgent NotificationAgent OSMAgent RetentionAgent
	[Processes]	Add Setting: FileSystemAgent NotificationAgent OSMAgent RetentionAgent TaskAgent
inserverWorkflow.ini	[Workload]	Add Setting: Workload.preference
Installer.ini	[Nodes]	Change Setting functionality: Inuse=2

INI changes from 7.1.x to 7.2.x

File Name	INI Section Heading	Description of Change
inow.ini	[Envoy]	Added setting: pcr.soap.bridge.url = http://<location of pcr instance>/rs/soapBridge
	[Experience]	Added section and setting: experience.url = any valid URL
	[Full Text]	Removed section

	[Message Queuing]	Added setting: mq.client.port
Inserver.ini	[General]	You must explicitly update the disable.pdf.thumbnail.generation property if you wish to utilize the PDF thumbnail generation feature. The system defaults to disabling generation of thumbnail images for PDF files.
inserverAlarm.ini	[Email]	Added setting options: queue.email.link 3 = Alarm Agent includes a Perceptive Experience URL link. 4 = Alarm Agent includes Perceptive Content and Perceptive Experience URL links. 5 = Alarm Agent includes Perceptive Experience URL links. 6 = Alarm Agent includes Perceptive Content and Perceptive Experience URL links.
inserverOSM.ini	[Network]	Removed section
inserverFT.ini	All	Removed file
integrationserver.ini	[General]	Added settings: connection.timeout.logon connection.timeout.search connection.timeout.erm connection.timeout.default stream.cutoff.size stream.transfer.chunk.size

INI changes from 7.3.x to 7.4.x

File Name	INI Section Heading	Description of Change
imagenow.ini	[Powervu Settings]	Removed setting: WebNowLinkAttach
interact.ini	[Powervu Settings]	Removed setting: WebNowLinkAttach
inow.ini	[Digital Signature]	Removed settings: dig.sig.pwd.webnow.timeout

	[Logon Control]	Removed settings: wn.sso wn.sso.key
	[WebNow]	Removed section
insaplink.ini	[Viewing]	Removed settings: view.webnow.url
inserverAlarm.ini	[Email]	Updated setting options: queue.email.link 1 = no longer supported.

Appendix C: Perceptive Content Upgrade Paths

You can upgrade to Perceptive Content 7.2 from any previous version of Perceptive Content and from ImageNow 6.6.0.212 and later. To perform an upgrade, see the installer upgrade commands below.

Installer upgrade commands

When performing an upgrade, the installer runs the upgrade commands for the version to which you are upgrading. The following sections provide the required commands for upgrading to Perceptive Content 7.2.

INTool commands

Upgrading from 7.1.2 or earlier

```
intool -cmd expire-digital-ids
```

For all upgrades

```
intool --cmd reset-queue-user-count
intool --cmd create-default-view
intool --cmd reset-queue-user-count
```

INUpgradeUtil commands

Upgrading from 6.6

```
inUpgradeUtil upgrade-context-maps
```

Upgrading from 7.1.2 or earlier

```
inUpgradeUtil upgrade-digsig-version
```

Upgrading from 7.1.3 or earlier

```
inUpgradeUtil upgrade-policy-queues
inUpgradeUtil reset-policy-apply-jobs
```

Upgrading from 7.1.4 or earlier

```
inUpgradeUtil process-jobs-invalid-state
inUpgradeUtil republish-jobs
```

For all upgrades

```
inUpgradeUtil upgrade-cas-to-ext
inUpgradeUtil upgrade-default-osm-sets
inUpgradeUtil clean-audit-templates
inUpgradeUtil upgrade-audit-templates
inUpgradeUtil upgrade-custom-properties
inUpgradeUtil upgrade-approval-task-templates
inUpgradeUtil upgrade-type-holds
inUpgradeUtil upgrade-workflow-routes
inUpgradeUtil upgrade-views
inUpgradeUtil upgrade-users
inUpgradeUtil upgrade-view-columns
inUpgradeUtil upgrade-osm --level 3
inUpgradeUtil update-rules --level 3
inUpgradeUtil upgrade-default-osm-sets
inUpgradeUtil upgrade-privs --from <major.minor version number>
```

Appendix D: Perceptive iScript Standard Template Library

iScript Standard Template Library

The iScript Standard Template Library (STL) is a library of functions created to increase the speed and effectiveness of iScript development. The library is available to any Enterprise Software customer with a current iScript license. The STL is updated for new releases of Perceptive Content. If you use the STL, you should upgrade the library when upgrading to a new version of Perceptive Content. You can download the iScript STL from the Downloads tab through the Customer Portal.

Appendix E: Discontinued products

When a product is discontinued, it must be manually uninstalled from your system. In some cases, the product is automatically uninstalled during the upgrade process. The following products have been discontinued.

Discontinued in 7.1.5

- Message Agent
- Message Queuing Agent

Note When upgrading to 7.2, Message Queuing Agent is automatically uninstalled.

Discontinued in 7.2.1

- ImageNow Content Server 6.7
- Full Text Search Agent 7.0-7.1
- Lexmark Secure Content Monitor (LSCM)
- Cluster Resource Monitor

Appendix F: Upgrade to 64-bit Perceptive Content on Linux

Pre 64-bit Linux upgrade checklist

To successfully identify differences between environments, perform the following steps for every environment of Perceptive Content that you plan on upgrading.

1. Upgrade to the latest Perceptive Content 7.2.3 release.
2. Backup your Perceptive Content 7.2.3 workspace.
3. Review the following Perceptive Content components for breaking changes:
 - Third-party OSM plugins. These plugins are located in the bin/plugins directory.
 - Review iScript dependencies and libraries loaded from scripts.
 - Review iScript dependencies and executables that are expected to be in the bin directory.
 - Perform the steps in the [Audit and validate components](#) section.
4. After you review all dependencies and establish a go-forward plan to ensure compatibility with 7.4.0, you can proceed with the upgrade.

Audit and validate components

Perform the actions below to audit and validate the components that the system adds to the Perceptive Content workspace after performing the upgrade. Review all 32-bit binaries and their dependencies. 64-bit Perceptive Content will no longer be able to load these libraries.

1. Copy the current Perceptive Content 7.2.3 workspace to a temporary review folder.

```
cp -r /opt/inserver/bin /opt/inserver_review/bin
```

2. Copy Perceptive Content 7.4.0 artifacts into a temporary review folder.


```
cp --force -r /opt/inserver7.4.0/bin/* /opt/inserver_review/bin/
```

3. Find and list all 32-bit components.

```
cd /opt/inserver_review/bin  
find . -type f -exec file '{}' \; | grep 32-bit
```

4. Determine the appropriate 64-bit upgrade path for each of the 32-bit components identified.