



Extelligence OR Implementation Guide

Picis Perioperative and Critical Care 8.6 MR4

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Intended Use: Picis Clinical Solutions software patient information system compiles an electronic medical record utilizing commonly available hardware. A patient record is populated with information from various sources, such as healthcare professionals, medical devices connected to the system, and data that arrives via hospital and laboratory information systems. The application stores this information in a database, and it may analyze and/or display the data in different formats for evaluation by healthcare professionals for informational purposes. The product is intended for use by healthcare professionals.

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Caution: The data displayed on Picis Clinical Solutions applications are for informational purposes only. Picis Clinical Solutions recommends that users always refer to primary devices for diagnosis and treatment.

Hardware Requirements: Detailed hardware requirements are provided during the contract process. Please contact your System Administrator or Picis representative should you require additional information.

Nomenclature: The expressions "real-time data", "real-time variables", "real-time fluids" etc. are Picis expressions that refer to near real-time data collected from connected devices.



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Unique Device Identifier (UDI)	For UDI information, refer to the <i>Release Notes</i> .
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Contents

1. Introduction	5
1.1. Terms and Concepts	7
2. Required Picis Software	8
3. Required Third Party Software	8
4. Release Package	9
5. Installation Process	9
5.1. Initial Installation	10
5.2. Install BusinessObjects	13
5.3. Import Perioperative Dashboard BusinessObjects Components	20
5.4. Install the Analytics Control Portal	21
6. Configure Extelligence OR	23
6.1. Re-extraction	31
6.2. Confirm the Install	32
7. Upgrade Extelligence OR	35
7.1. Assumptions	35
7.2. Before you upgrade	36
7.3. Uninstall the Previous Version (In place upgrades only)	37
7.4. Install the Upgrade	37
7.5. SQL Server initialization (Conditional)	37
7.6. BusinessObjects Upgrade	38
7.7. Perform the Upgrade	40
7.8. Monitor the Automated Re-extraction	44
7.9. Enable the Trigger on the Daily Scheduled Task	45
7.10. Remap the Time Pairings Report	46
8. Maintain the Current Dashboard Version with the Upgrade	46
8.1. Upgrade a Former version of PPD to this release from 8.6 or 8.6 SP1 on the Same Environment	47
9. Update the Analytics Control Portal	47
9.1. Running the Installer	48
9.2. Dashboard Mapping	48
Appendix A: Install BusinessObjects 4.1 SP4 Server	49
A.1. SAP BusinessObjects 4.1 SP4 Server Silent Install	49
A.2. SAP BusinessObjects 4.1 SP4 Server Manual Install	49
Appendix B: Install BusinessObjects 4.1 SP4 Client	53
Appendix C: Backup Recommendations	55
C.1. FileStore	55
C.2. Repository	56
C.3. Extelligence OR DB	56
C.4. Minimum Backup Recommended:	56
Appendix D: Database Migration	61
Appendix E: Manually Migrate the Picis Extelligence OR Databases	63
E.1. On the Source System	63
E.2. On the Destination System	64
Appendix F: SQL Server 2012	65
F.1. Required Third Party Software	65
F.2. Update the Universe	65
Appendix G: Import Source CMS into Destination CMS	67
G.1. Extelligence OR 8.5 upgrading to 8.6	68
Appendix H: Promote Icmbar Files	69

Contents

Appendix I: Remapping a Report 73

**Appendix J: Setup the SMTP
Server to E-mail on ETL Fails 79**

J.1. Mail setup – Configure Web_Extel-
 ligenceJobServer79

J.2. Steps to Schedule the Scheduled ETL
 Status Report81

Appendix K: Define Time Pairs ...85

K.1. Classes85

K.2. Time Pair Objects86

K.3. Creating or Editing Time Pairs87

K.4. Time Pair Data Tables90

K.5. Calculating Time Pairings durations .. 93

K.6. Time Pairings Report95

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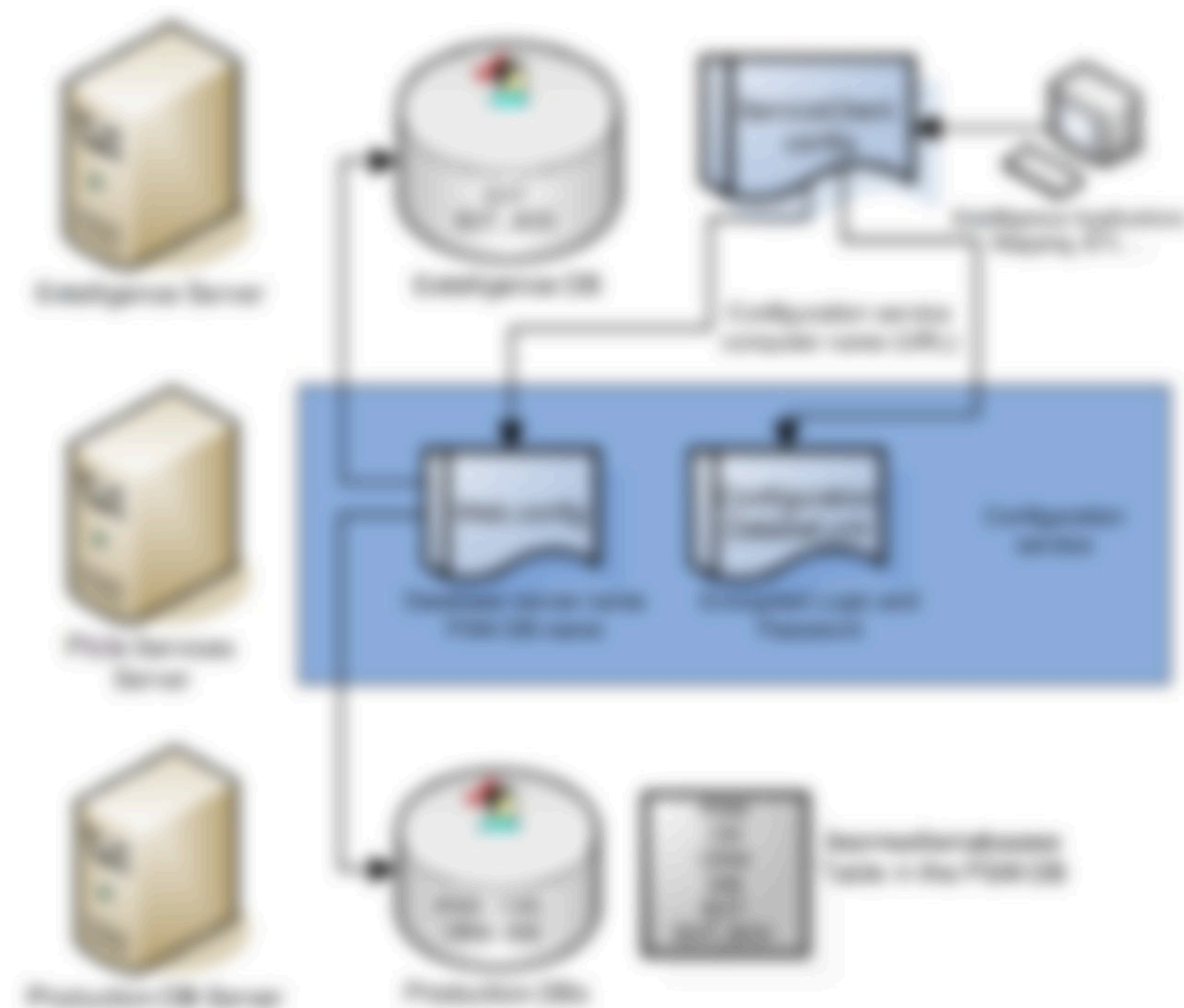
For information on creating a reference list, see section 3, appendix 1, page 1.

The instructions in applying an existing version of the program (V6) should use version 1.1, except for version 2.1, in which the instructions to compute the α -value using the current version of the program (V6) are deleted in 2.1. However, the current instruction should still be applied in 2.1.

NOTE: The difference in the grade is what is first mentioned, namely, the "highest" mentioned grade and when not only one but two grades are mentioned, the grade is what is first mentioned.

The series of Intelligent Mail™ zip code verification services is widely recognized as the standard industry. First-class, 980, 981, 982 and 983 are the Intelligent Mail ZIP+4® service, as shown in the following figure:

1. Introduction



1.1. Overview: This is a BusinessObjects Enterprise architecture diagram that shows the components and their interactions. The architecture is as follows:

These services are required:

- **Intelligence DB Server:** This is the central database server for the BusinessObjects Enterprise. It is responsible for storing the application server and web server data. This database server includes the Control Management Server (CMS) repository database, which contains data on users, groups, and security levels.
- **Flow Service Server:** This server is part of a clustered installation. It hosts a number of web services. Intelligence DB uses the Configuration service.
- **Production Database Server:** This is the central database server for the BusinessObjects Enterprise. It is responsible for storing the data for the BusinessObjects Enterprise.

Note: Both endpoints services must use the same logs. The logs must have the necessary rights to creating the ODBC between the services.

Intelligence Freshness is already installed in all other components with Intelligence DB as follows:

- Intelligence for Intelligence Freshness and Intelligence DB can reside in the same server.
- Intelligence Freshness and Intelligence DB have to share the same BusinessObjects (BO) operating database and the ODBC connection used for it. There can be only one ODBC database.
- The same instance of BusinessObjects can be used to access Freshness and DB agents and services.

1.1 Terms and Concepts

Component	Definition
Central metadata system	A relational system of services and administrative services, one or more of the following may use: Data Storage, Intelligence Storage, Policy Storage, or Intelligence Storage. The central system that uses the ODBC and ODF services.
Administrative metadata system	A relational system of services and administrative services, ODF Storage. It may also include ODF Storage that services include Policy Training, Data Administration and also use Policy Security Storage. The tool used to control and set group access to metadata. The basic administrative metadata system uses two databases: ODF, ODF and metadata. In Policy Training is included that an another database is needed policy training.
Use Intelligence Freshness, Data Storage, Policy Storage, or Intelligence Storage	Intelligence database is "central metadata" system and an administrative metadata system with the other system that is shared database from the other "Intelligence system". Other database specified the name Intelligence and metadata file is administrative metadata.
Meta tool	After creating a ODF database to be the tool, the meta ODF process is used to replicate the database to use in a ODF environment. The process is not related to database that are being updated.
File Service	The setting of administrative, data and web services that create capabilities and also in applications and other File components.

2. Required Java Software

Component	Description
IBM Security	BusinessManager Enterprise Reporting Database. It includes information about users, groups and security events.
SPS	Events, Transactions and User Profiles. This provides real-time transactional data into a Java database useful for reporting and analysis by end users.
ASPS Server	Simple Mail Transfer Protocol server.
IBM	License Management Service. Provides the IBM software entitlements, IBM, which is installed by the IBM License Application, and is the BusinessManager Enterprise Reporting.
IBM	License Management Console. This is a BusinessManager add-on used for license security.
IBM	Server Intelligent Agent.
IBM	License Configuration Manager.
Vendor	Web services provider used by BusinessManager.
WebSphere	Business Intelligence License Reporting for. Includes the BusinessManager components that are specific to the upgrade.

2. Required Java Software

The version of Intelligence BI only works with corresponding versions of the underlying database and Java Service Server. A working system must exist prior to the installation of Intelligence components.

2. Required Third Party Software

The required third party software on the Production Database Server and Configuration Manager Server, please see the Java Java Management and Virtual Java Installation documentation. For the third party software requirements for the Java Intelligence BI Server and WebServices, which include the steps to install Java options, please see the Release Notes.

2.1. Enable Java Options

Automatic Java options should be enabled as follows:

1. Open the Java Control Panel (this can be found in the Operating System Control Panel).

- On the update tab, click the Check for updates automatically link.

Note: Because the application is self-updated, the software needs to be installed at installation.

4 Release Package

The update file for the release package is named *Intelligence_08_001.exe* and contains the modules for the full install and upgrade scenarios.

When you install the upgrade you are prompted to a destination folder where the install will create a new folder named *Intelligence_08*. The base folder contains all the upgrade components for all three user roles.

Post-Deployment Configuration (PDC) is included with the *Intelligence_08* installation or upgrade process. The associated logging tool is included in the installation or upgrade of the Analytics Control Panel. Both processes are explained later in this guide.

4 Installation Process

The installation process is intended to allow you to perform a series of *Intelligence_08* or *Intelligence_08* components already installed. If a previous version exists, this step is 1. Upgrade *Intelligence_08* or step 2.

This is installing *Intelligence_08* components and BusinessObjects software, which *IF* gets software must be installed as described in section 1. Overview. This step is followed by the software.

There are two phases in the installation process:

- Initial installation also called initial setup. This process takes longer to get to the required

Note: The activation process performed during initial installation can take more than a day to complete.

For the initial installation, *Intelligence_08* is configured to use the *IF* agent or the agent specified in the implementation environment.

- Reactivation. This is an optional step, and is done after *Intelligence_08* reagent is complete. This step only needs to be performed if it is found during reagent or during that the *IF* agent must be changed.

Note: This is using the *Intelligence_08* reactivation. Reactivation must be stopped in the Analytics agent - Information Tools - Services.

5. Installation Process

5.1. Initial Installation

Note: The following steps are performed at the ForgeIntelligence OS Server when initial otherwise.

5.1.1. Install ForgeIntelligence OS components

1. Double-click the the ForgeIntelligence OS .JDK icon and to start the ForgeIntelligence OS installer. The Welcome window opens.
2. Click Next.
3. The Select Installation Folder window appears.
4. Select the drive with the largest amount of space (typically C:) and then click Next.
5. The Install Installation window opens.
6. Click Next.
7. At the end of the installation, the Installation Complete window opens.
8. Click Close.

Note: The installer creates a folder called ForgeIntelligence OS around the installation files that are specified.

5.1.2. Create the ForgeIntelligence OS and OMS instances

1. In the ForgeIntelligence OS, authorize that you created when installing ForgeIntelligence OS components, open the ForgeIntelligence OS and then double-click the the OMS instance icon. The following window opens.

- [illegible]

- [illegible]

Note: This is an optional question. If a user chooses not to answer, then the question is not included in the results. If an answer is entered, then the question will be included in the results along with the other questions.

1. In **Users**, enter the name of a WLS Server user that has administrator rights. (For example, **WLS**.)
2. In **Password**, enter the password for the WLS Server user.
3. In **Configuration Service Name**, enter the Web server name that hosts the Configuration Service.
4. An email confirmation has been sent.
5. If everything looks OK, click **OK** to confirm the configuration selection.

[illegible]

- create_shipping_area_procedure, `integrated_integration.sql`
- create_shipping_area_procedure, `integrated_integration.sql`
- create_shipping_area_procedure, `integrated_integration.sql`
- create_shipping_area_procedure, `integrated_integration.sql`

- create database user procedure, `CREATEPROCEDURE createDBUser`
- create user database, `CREATEPROCEDURE createDBUser`
- create schema user procedure, `CREATEPROCEDURE createDBUser`
- create schema user procedure, `CREATEPROCEDURE createDBUser`
- To understand how the user test database knowledge, if the user test the user test will not work. If you have questions about the contents of these files, look at the file test and suggest with the user and how the user test the user test.

5.2 Install BusinessObjects

5.2.1 Install BusinessObjects Server

Follow the steps in the chapter 5.2.1 Install BusinessObjects Server at page 10.

Note: If BusinessObjects Enterprise is already installed, the user test the user test will not work. If you have questions about the contents of these files, look at the file test and suggest with the user and how the user test the user test.

5.2.2 Install BusinessObjects Client

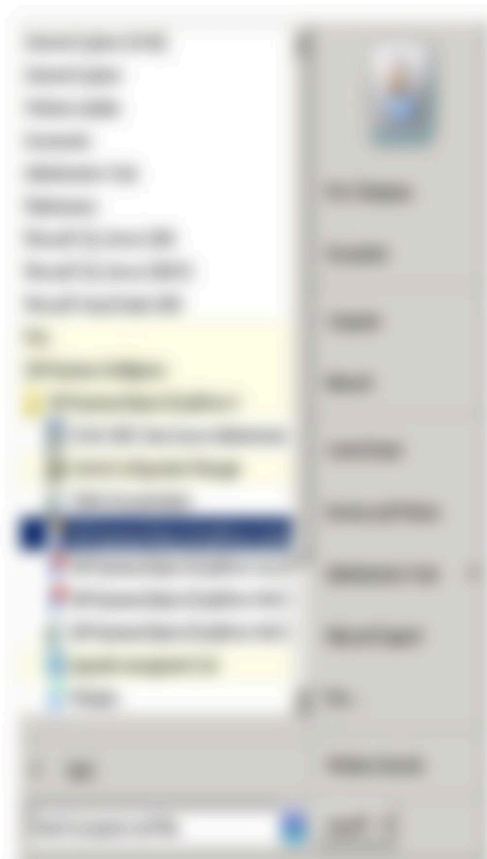
Follow the steps in the chapter 5.2.2 Install BusinessObjects Client at page 10.

Note: If BusinessObjects Enterprise is already installed, the user test the user test will not work. If you have questions about the contents of these files, look at the file test and suggest with the user and how the user test the user test.

5.2.3 Install BusinessObjects Components

1. Install the Business Management Console.

5. Installation Process

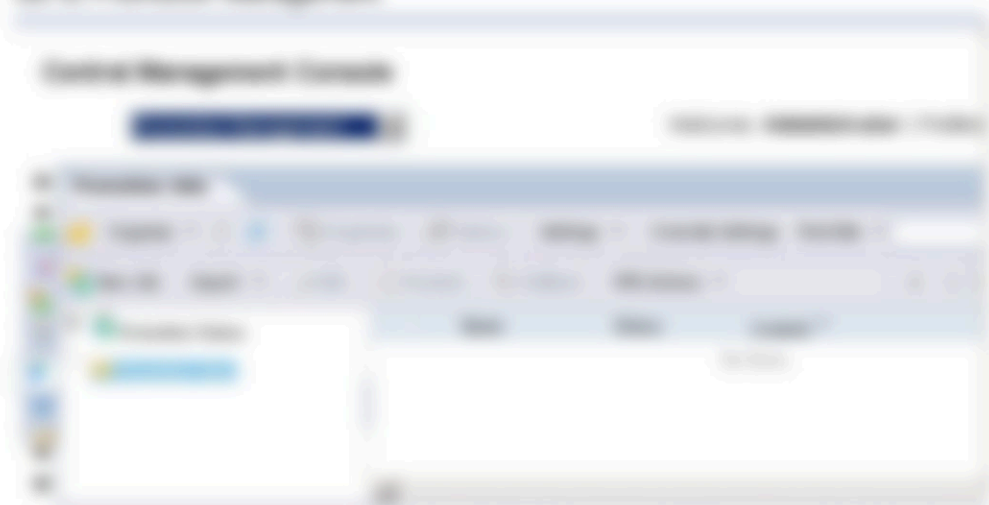


- a. From the Start menu select the Program
- b. Open the folder named "SAP Business Intelligence"
- c. Open the subfolder named "SAP Business Intelligence - Core"
- d. Click to select "SAP Business Intelligence - Core - Control Management Console"
- e. Log on to the Control Management Console



4. Enter the System Name, User Name and Password.
5. Accept the license in the authorization.
6. Click Log In.

5. SAP Provision Management



7. Select Provision Management.
8. Click Import and select Import from file.

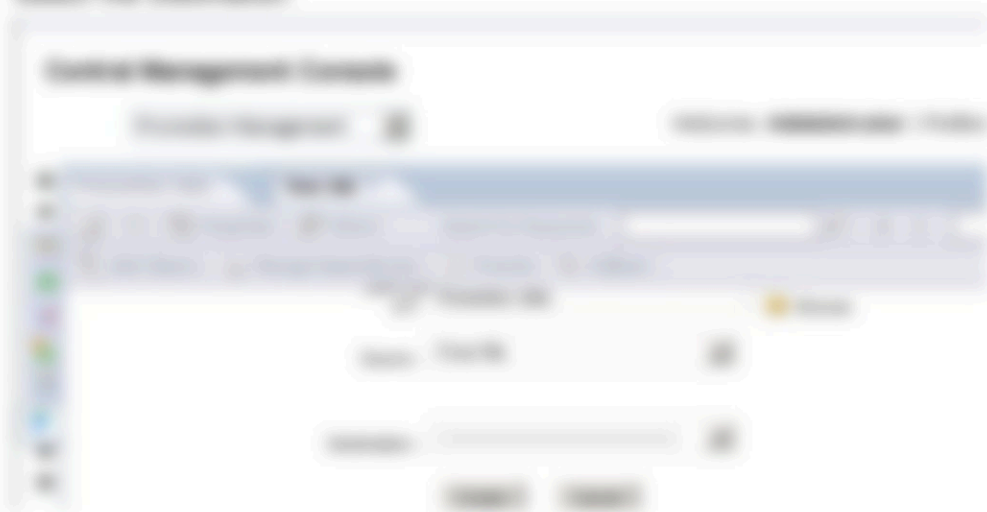
5. Installation Process

4. Import from File



1. Select the System.
2. Click Browse.
3. Select the file Intelligence 3D model from the BusinessManagement subfolder of the Intelligence 3D folder of the model structure.
4. Click OK.

5. Select the Destination



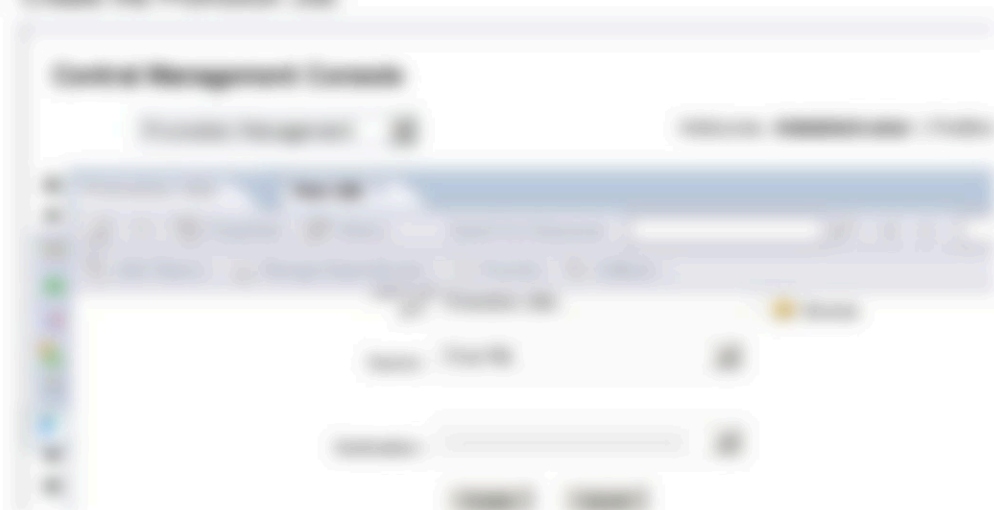
1. Click the Destination drop-down arrow.
2. Select Import to a New I3D.

6. Import to System



1. Select the System Name
2. Enter the User Name and Password
3. Accept the Terms and Conditions
4. Click Log In

5. Create the Promotion Job

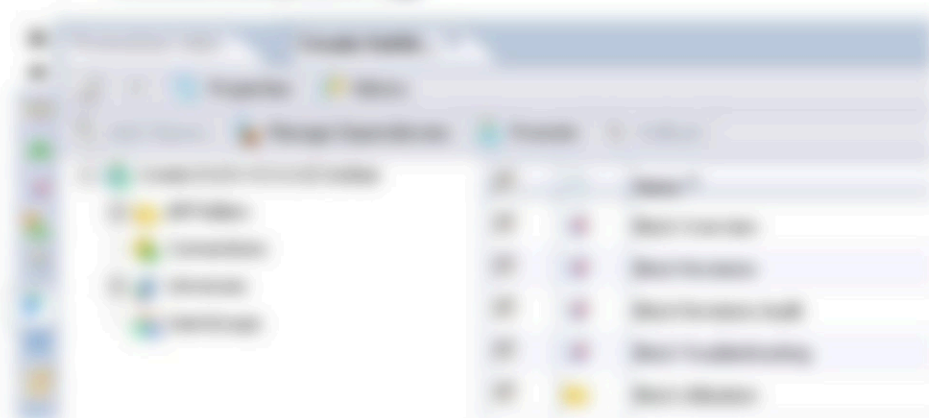


1. Add the Promotion details using the table

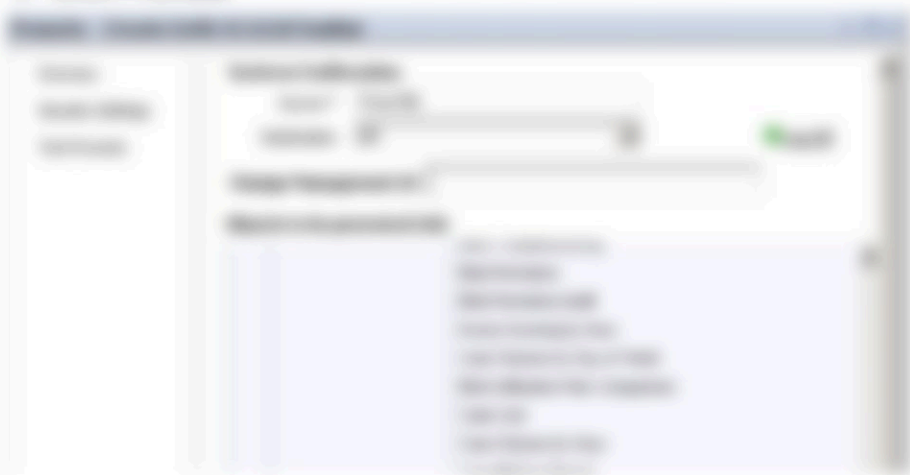
6. Manage Dependencies

Control Management Console

Control Management Console

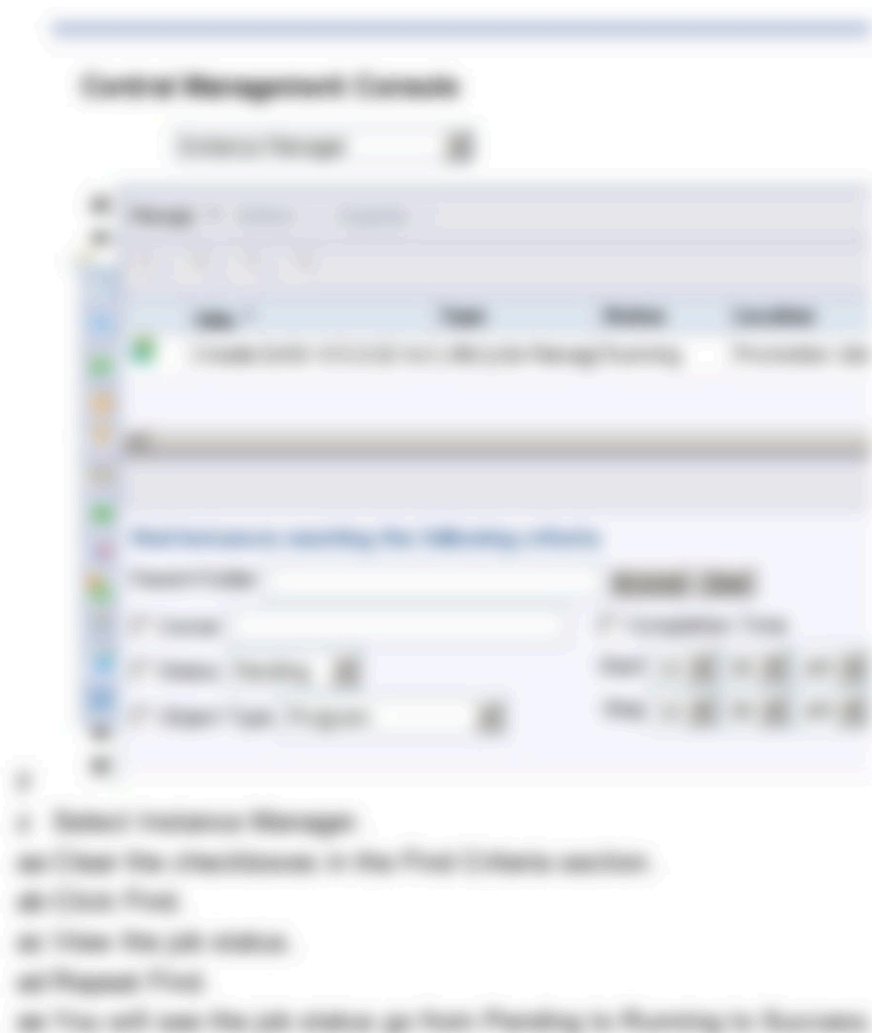


5.1.1 Control Process



5.1.2 Control Storage

6. Installation Process



6.3 Input Participative Dashboard BusinessObjects Components

Repeat the process you followed above in 6.2.2, except for the 'Flow Temperature Dashboard' component in step 2 to install the correct file for Flow Participative Dashboard.

6.3.1 Installation Overview

1. If an error occurs during the installation process, an error message pops up and an error log is automatically created. To troubleshoot the error, go to Flow Temperature Dashboard is automatically uninstalled and during the install process, the dashboard is deleted.
2. If Flow Temperature Dashboard dashboard already exists, the installation is cancelled and the existing dashboard is not overwritten.

This includes the installation of Intelligence 360. Continue to section 5, *Configure Intelligence 360*, in chapter 5 to complete the configuration steps.

5.2 Install the Analytics Control Panel

Flow Performance Dashboard (FPD) is included in the installation with Intelligence 360, but also requires the mapping tool to configure how the indicators display. The FPD mapping tool is included in the Analytics Control Panel (ACP) installation.

Note: ACP works with ACP and the FPD mapping tool, but only the FPD mapping tool is applicable to Intelligence 360. See the *Service Installation Guide* for information on configuring ACP.

To enable Analytics Control Panel functionality, it must be installed and configured at the appropriate server. The installation provides access to *Analytics Setup*, *Indicator Setup*, and the *Flow Performance Dashboard (FPD) mapping tool*.

Note: The installation process assumes that the Flow VTE Services are running and the databases are installed.

Note: The Analytics Control Panel should be installed from a machine that is different from where it is needed.

5.2.1 Installing the Analytics Control Panel

The Analytics Control Panel (ACP) should be installed on the same server where the Flow VTE Services are installed.

Note: The Service Integration Services (SIS) must be installed and started at the Database server. To verify that SIS is installed, click *Start > Administrative Tools > Services*. See the *SIS Service Installation Guide* for information on SIS. If it is not already installed:

1. In the local server settings, double-click *Analytics Control Panel* and use the to start the installation process.
2. Go the *Network window*, click *Next*.
3. Select to accept the terms in the license agreement and click *Next*. The Flow VTE Services Service window opens.
4. Enter the Service control name and register name (the register name displays in the Analytics Control Panel window).

Note: Be sure to enter the name of the server where the Flow VTE Services are installed, as well as the register name. If you are on the local server:

5. Installation Process

5.1.1. Step 1: Step 1

The language selection window opens.

1. Choose the English option as this is the only supported language. The option is the only one with a checkmark.

2. Click Next and then click Install to start the installation process.

3. After the installation is complete, click Finish.

5.1.2. Verify OS Security Manager Rights

Note: The user applications must be installed in order to verify these steps.

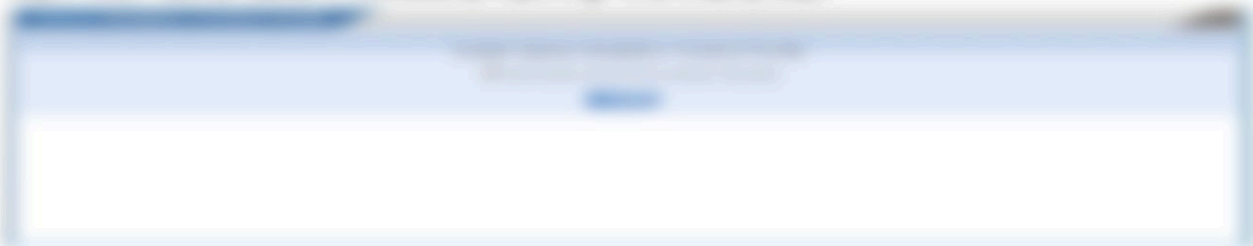
Use Security Manager to verify that the user has the following rights in the Analytix Control Panel application and features, and ensure that security services are best practice.

1. Click File > User Applications.
2. Select a user in the left pane, under User Groups.
3. If needed, select Analytix Control Panel in the right pane, then click Next.
4. Click File > User Functions, and ensure that access is granted to the Analytix Control Panel application features.
The User Functions window opens.
5. Select the user.
6. Select Analytix Control Panel.
7. Click Select to access the specific features of the panel.
The Security window opens.
8. Select the features the user requires and click Next.

5.1.3. Access the Analytix Control Panel

1. From a workstation, open Internet Explorer and type the following URL, where `server_name` is the name of the server where the Analytix Control Panel is installed.

`http://<server_name>/Procedures/Reporting/InstallPages.asp`



2. Click Next to download the application and use it as the workstation.
3. To use the application directly, type `server_name` in the name of the server where the CP Panel is installed.

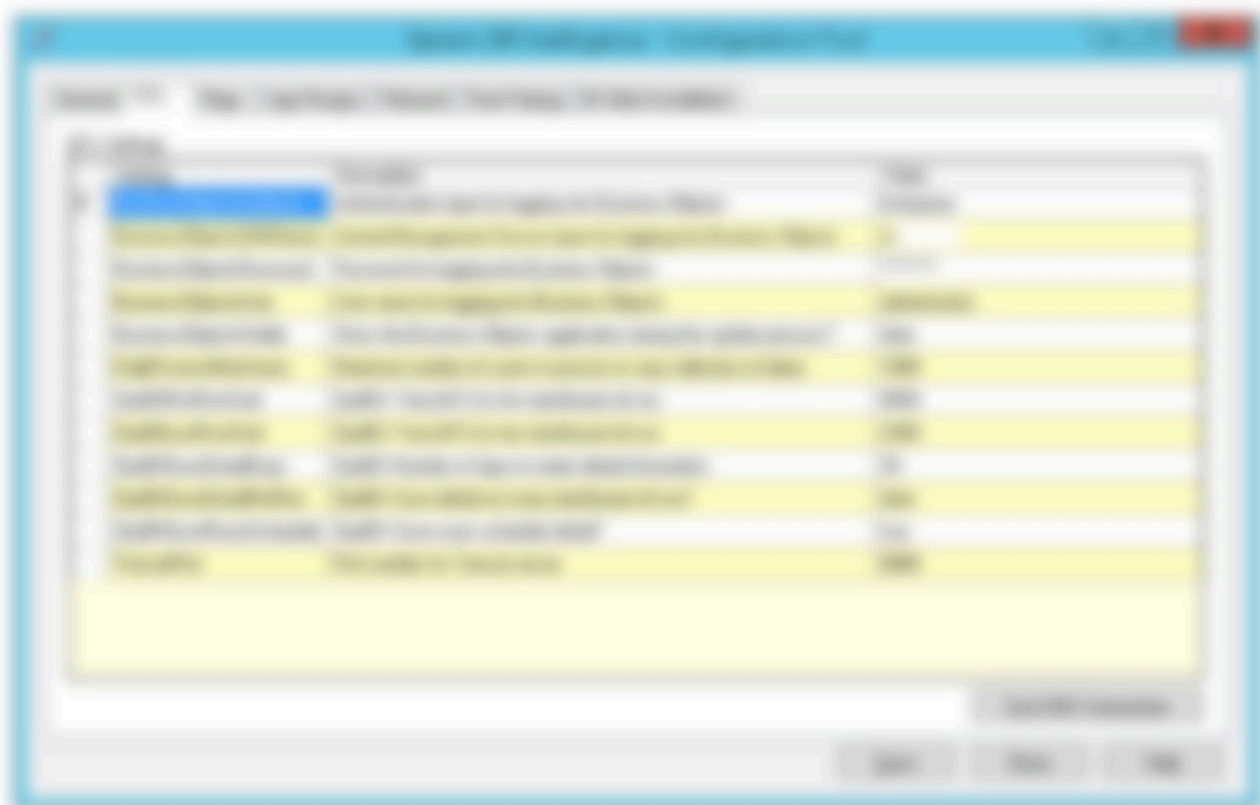
1. The `configure` script (`configure.sh`) is used to configure the Intelligence DR application.
2. Enter the user credentials previously setup in FDB for the `Intelligence` Control Plane and verify that the application is running as expected.

4. Configure Intelligence DR

The `configure` script allows users to configure the Intelligence DR application. The script configures the user and the `Intelligence` application. The script is also used to apply the user. These steps form the `configure` script.

Note: The `configure` script sets the `DR` as the user, as the initial connection configuration is not yet complete. The `DR` will be configured after the initial setup is completed.

1. In the `configure` script, configure the user created when creating Intelligence DR components. Double-click `configure.sh` to run.
2. Use the `configure` script in the `Intelligence` Control Plane to enter settings as needed. The application that do not have specified values, keep the default value.
3. In the `configure` window, verify the `Control Plane` and `Intelligence` Plane for each connection.
4. In the `DR` tab, enter the correct values for `BusinessApplicationID`, `BusinessApplicationName`, and `BusinessApplicationType`.



5. In the Page number box, type the following text for reference to representative documents in which it appears the correct value:

Systemwide Section	W. Flag Minimum	Priority Minimum	Interpreting W. Flag Value
System Buffer Stage	system buffer stage	Number grade flag is about 4	Number grade flag 1
Final Flag Stage	Final grade flag	Number	2000
Intergrade Lines	Intergrade lines	Flag is 10	1 or 10

Configuration Feature	Is the Feature Enabled by Default	Feature Function	Configuration Is Required
Case Block Time Parameters	Yes, with the following values:	Case Block Time Working Block Time Waiting Working Block Time	Yes
Block Access Priority	Yes, with the following values:	None or Block	Yes or No
Block Case in Different Block Type	Yes, with the following values:	None or Block	Yes or No
Block Group Priority	Yes, with the following values:	Original Group Original Group	Yes
Case Block Priority	Yes, with the following values:	Original Group Original Group	Yes
Execution Case Block	Unchanged, with the following values:	None or Block	Yes or No
Stop and Transfer Case Block Information	Yes, with the following values:	None or Block	Yes or No
Stop and Transfer Case Block Information	Yes, with the following values:	None or Block	Yes or No
Include Stop, Transfer, Working Case in Case Release in Block Information and Release	Yes, with the following values:	None or Block	Yes or No
Include Unreleased Case in Block Information	Yes, with the following values:	None or Block	Yes or No
Case Type	Yes, with the following values:	Yes	Yes
Case Type Type	Yes, with the following values:	Yes	Yes
Transfer Case	Unchanged, with the following values:	Transfer group Yes	Transfer group Yes

6. Configure Standard Fields

6. In the **App Manager** window, at least one **App Manager** must be defined. From the description, the app is visible from the implementation. Subsequently, for a single, or even default to use the default app image.

The **Phone** and **Phone** icons are associated automatically and cannot be edited.

Note: **Phone** and **Phone** are not allowed.

7. In the **Phone** app, click **Phone**. The following window opens in the window to edit.



8. After entering the parameters, click **Save**.

The **Phone** configuration window opens.

Note: All entries must appear that application runs in the app is complete. If you attempt to save, some of entries are null, all error message will appear and ask you to complete the configuration before saving.

6.2.1 Map Your Default Fields to Standard Fields

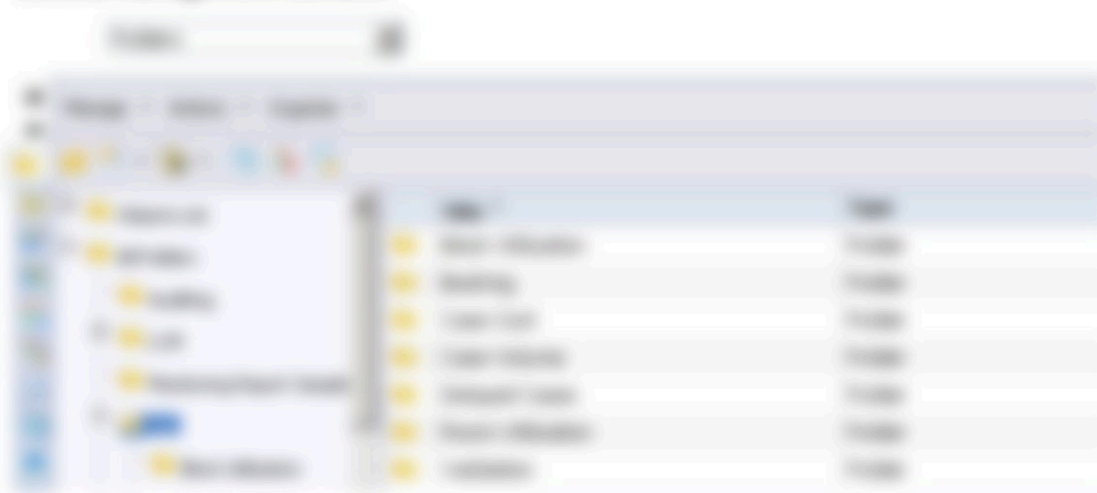
This step is only required when the standard fields are not used. Copy the entries from the implementation. Subsequently, map the entries from the Phone standard fields.

1. Update the client's Information Dashboard.
2. Determine the name of the IDH database.
3. In the Intelligence 360 database, update the client procedure for default IDH IDH mapping by providing the IDH database name as a parameter. The procedure sets the default mapping.
4. Open the table IDH IDH mapping in the Intelligence 360 database for editing in read.
5. Open the table IDH IDH mapping in the Intelligence 360 database for editing in read.
6. Open a separate query window against the IDH database.
7. In the Information Dashboard go to the section named Map Your Defined Fields to Standard Fields.
8. In the first table where the client has provided a user defined measure that differs from the standard user defined field, open the user defined table in the IDH database to collect the user defined data for the user defined measure.
9. In the IDH IDH mapping table from the first table where the user IDH user matches the standard user defined field. Change the value for user IDH user to the user defined measure supplied in the questionnaire and change the value of the IDH IDH user to the user defined IDH user found in the database table.
10. Repeat steps 7-9 for all user in the questionnaire where the client has provided user defined field measures other than the standard user defined fields values from the IDH database.

6.2.2 Verify the Installation

1. Log into the IDH Control Management Console using the administrator user.
2. Verify that the IDH table can be submitted as shown.

Control Management Console

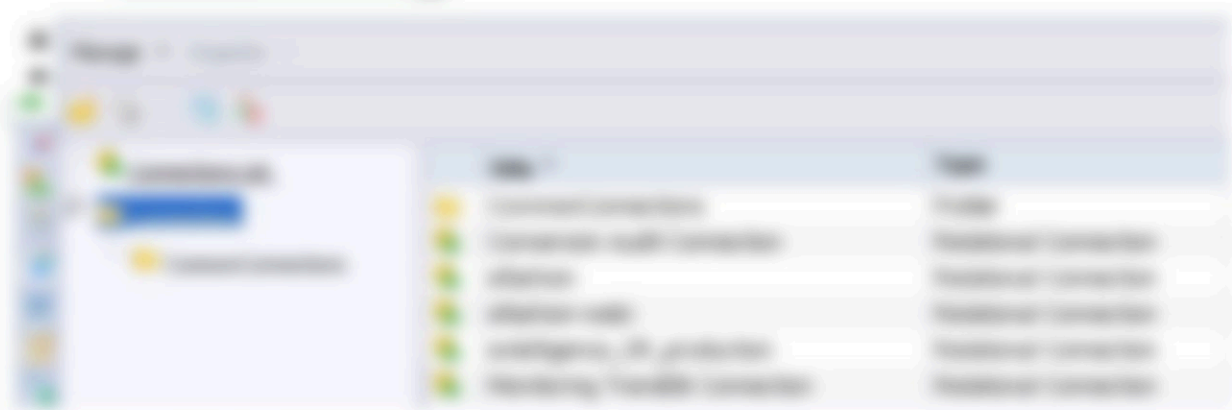


6. Configure Intelligence DR

- Verify that the Prose Perspective Dashboard folder is present as well as the PerspectiveDashboard of DR.
- Verify the Intelligence DR (2 x 2) services work.
- Verify the Perspective Dashboard services work.
- Verify the console connection has been created.

Control Management Console

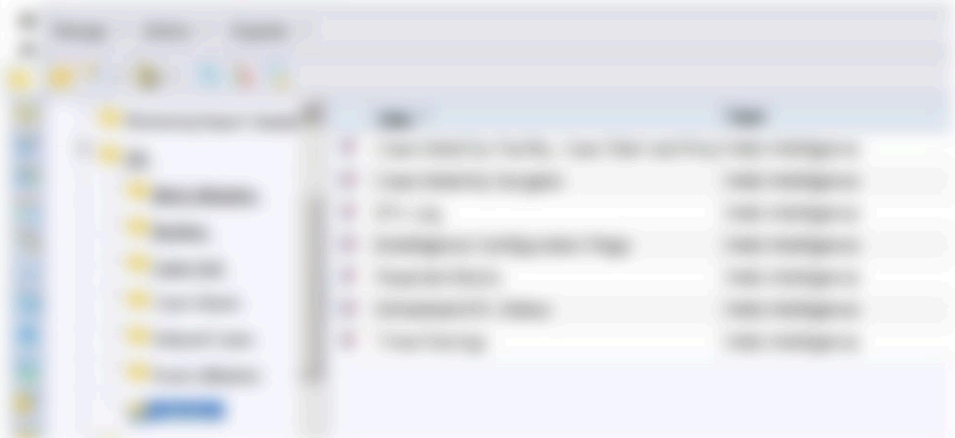
Control Management Console



- Verify that all the Intelligence DR reports are available.

Control Management Console

Control Management Console



6. Block Definition

6. Configure Intelligence Hub

Intelligence Hub Configuration Page

Report Mode

Scheduled I/O Status

Time Setting

Note: The default value for the Time Setting report is 0:0, all other reports are 0:0:00.

1. Check the database connection is working correctly as follows:
 - a. **View Settings Step** - **Go Programs** - **SQL Business Intelligence (BQ)**
BusinessWorks® B and/or **3** (these tools reference Oracle Tools)The "user identification" window opens.
2. In the **User Name and Password** enter the user name and password of a user with rights to the Central Management Console.
3. Go to **Tools** - **Connections**.
4. In the listing highlight the connection named **Intelligence Hub Production 0:0:0**.
5. Click **Test** the green check mark image.
The message "The server is responding" should appear.

6.2.2 Run the initial Extraction

1. In the **Intelligence Hub** subheader that was created when installing Intelligence Hub components, **BusinessWorks® B** click **Go**.
The **Intelligence Hub 0:0:0** Process window opens.
2. Select **Initial Load** from the drop-down.
3. For the initial extraction, ensure all the options are selected.
4. Click **Extract** to pull the data into the Intelligence database.

6.2.3 Schedule the Daily I/O

1. From the Configuration Tool, in the **I/O** daily scheduled window, select **I/O**, **Start Time** and specify the time to run the daily extraction. Click **Go**.
The **I/O** user window opens.
2. Enter the **Extraction** and corresponding **Process** for the **Intelligence Hub** daily **I/O** scheduled task. The system will create the job.
After the scheduled task is created, the job number changes to number in the **I/O** daily scheduled window, and the **Process** option is enabled. The task will also be changed from the **Windows Scheduler** icon from up the **Custom Page**.

Note: When **Intelligence Warehouse** is also installed, schedule the **I/O** to run at a different time than the **I/O** daily task. It is recommended to run **I/O** at least one hour after **IB**.

1. Select the Intelligence 360 Setup option to open an wizard in the administrator user interface. Select when the Intelligence 360 process fails. See Appendix A, About the IDMT, about IDMT and IDTS. Refer to page 35.

This completes the initial installation process.

8.2.2 Dashboard Mapping

Use the Dashboard Mapping Tool to configure how the information displays in the Dashboard. See the Analytics Center Portal Tools for detailed information.

8.2.3 Turn on Dashboard 360 Service

CAUTION: The Intelligence 360 setup tool must be complete before enabling the Dashboard 360 service. Also ensure that the Data 360 is configured to a time that does not overlap with the Dashboard 360. These should not be run simultaneously.

1. Open the Services application (Start > Administrative Tools > Services).
2. Right-click on RealTimeSense and click Start.
3. Start the Services application.

Note: If the service is already running, that does not appear in the step above.

8.3 Re-extraction

A re-extraction is done only when there have been data made in the configuration since the initial extraction. It is important that IDMT the Data that extraction do not do a re-extraction to avoid service issues within the system.

CAUTION: Ensure that a re-extraction is not run simultaneously as the Data 360 or Dashboard 360 processes.

Before starting the re-extraction process, the Data 360 must be disabled as explained in the following section.

8.3.1 Disable the 360

1. Open Services console (Start > Programs > Accessories > System Tools).
2. Right-click Intelligence 360 Data 360 and select Properties.
3. Click Disable.

8.3.2 Re-run the 360 Load

This step is only necessary if changes have been made in the mapping since the original 360 load.

6. Configure Business IQ

1. Ensure that the following are satisfied:
 - **ETL1** - Transfer tables from BI Production to Staging Area
 - **ETL2** - Transfer tables from Staging Area to Business IQ
 - **Data Rep** - Replicate subscription information and dimensional data
2. **Start Service**
3. After the job execution completes, restart the data ETL process.

6.1.2. Reconfigure the Daily ETL Extraction Process

1. If not already open, open the Configuration Tool.
2. In **ETL Step Flow**, select the flow you want the daily extraction to run and then click **Step**.

Note: If Business Intelligence is also installed, make sure the ETL step runs to Business Intelligence and Business IQ. ETLs to BI will run first.

The ETL step window opens.

3. In **Subscription**, enter details for a user that has rights to run the ETL job process. This user will be used for running the data process.
4. In **Frequency**, enter the user's password.
5. **Step ID**.
6. Proceed to the next window directly or click **Back** to the main Configuration Tool window.

Note: After creating a scheduled job, it can be activated and edited via the Scheduler Tools option in the operating system Control Panel.

6.2. Confirm the Install

Perform the following installation checks:

1. Check that you can open the BusinessIQs Central Management Console locally.
2. Check that you can open the BusinessIQs Central Management Console remotely.
3. Check that you can open Internet.

These checks are described in more detail in the following subsections.

6.2.1. Start BMC on the Business IQ Server

1. **Start BMC** = **bin Programs** + **SQL Business Intelligence** + **SQL BusinessIQs BI platform** + **SQL BusinessIQs BI platform Central Management Console**.
The log file window opens.



2. Enter the default FortiGate values in **User Name** and **Password**, enter the user name and password of a user with rights to the FortiGate Management Console. Click **Log In**. It enables the the following page:

6. Configure Intelligence DR



6.2.2 Start DRB Recovery from a machine other than the Intelligence DR server

1. In the Business Manager console, click on the 'Intelligence' link in the left-hand pane.

Click on the 'Intelligence' link in the left-hand pane.

The address will contain a machine name, that is the name of the Intelligence DR server and a port number. For example, 192.168.1.100:8080. This address will be used during the installation of Business Manager.

The log file will be created.

2. Log on to the same way as described in section 6.2.1, Start DRB, at the Intelligence DR server.
It will be used as the address in section 6.2.1, Start DRB, at the Intelligence DR server.
(192.168.1.100:8080)

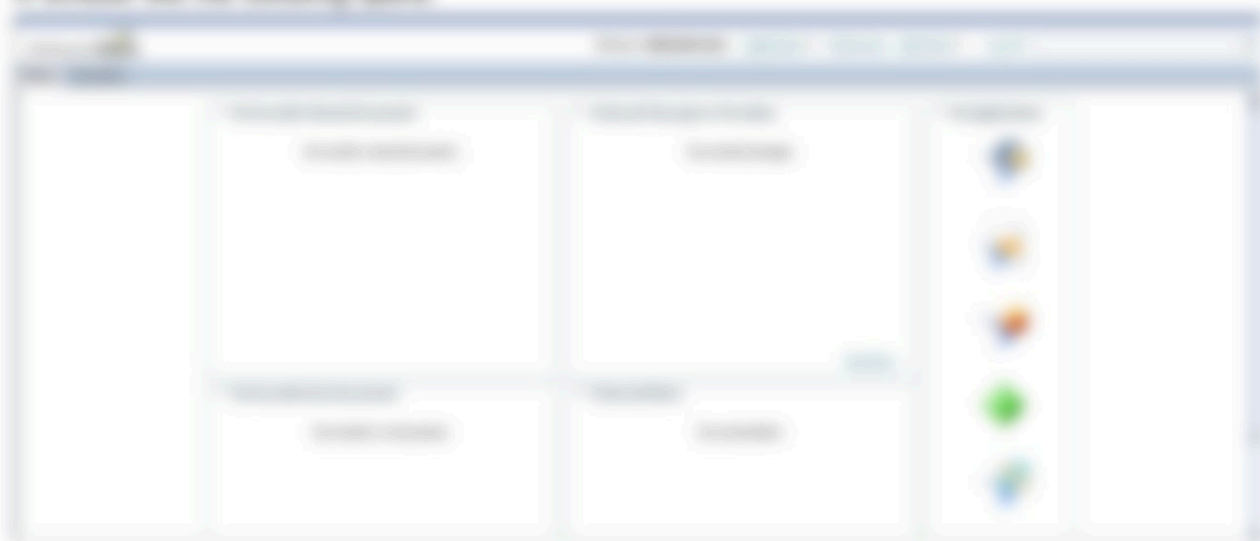
6.2.2 Start the Upgrade Path

1. In the Intelligence ONE console, click **BusinessObjects Web Intelligence** > **Business Intelligence** > **BusinessObjects ONE platform** > **BusinessObjects ONE platform** > **Start the Upgrade Path**.

The upgrade window opens.

2. In the **Name and Password** section, the user name and password of a user with rights to the server and the ability to create installation or "Administrator" and a blank password are used (by default).

It is possible that the following opens:



1 Upgrade Intelligence ONE

7.1 Assumptions

1. The prior Intelligence ONE version you are upgrading from is properly installed and configured.
2. The prior PaaS Perspective and Central Tools system has been upgraded.
3. Steps in versions of Intelligence ONE prior to 6.0.2 should first upgrade to Intelligence ONE 6.0.2 before following the upgrade documentation that was provided for those versions.
4. The PaaS Configuration Service is running.
5. The user performing the upgrade has Windows Authentication access to the server on the Intelligence ONE server.
6. The user upgrading PaaS Perspective Dashboard has administrator rights on the web server that is a host PaaS Perspective Dashboard.
7. The web server used in prior PaaS Perspective Dashboard will not be used as a workstation.

1 Upgrade Intelligence 360

1. In the web service interface, the new web browser entry must be allowed.
2. All software requirements described in the Release Notes have been met.

1.1 Before you upgrade

1.1.1 Determine the Client's Current Version

1. Select **Client** > **My Properties** > **File** > **Intelligence 360** and right-click on **360** application.
2. Select **Properties** and record the value for **File** in:
3. **Storage** in the **File** tab, right-click on **360** application and select **Properties**.
4. Check the **Version** tab in the **Properties** window and record the **File** version setting.
5. Supported versions start with 3.1.0, 3.1.1, 3.1.2 and 3.1.3.

Note: Record the current version. The execution of some of the upgrade steps is dependent on the version of Intelligence 360 from which you are upgrading.

1.1.2 Backup the File Intelligence 360 Database

Refer the backup steps of the Intelligence 360, Intelligence 360 Imaging and 360 Mail Mail, 360 File database. See 1.1.3, [Database Backup Procedures](#), on page 25.

1.1.3 Setup the Upgrade Environment

Note: The user is set up in an environment that meets the minimum requirements for the application as per the Release Notes. Note also that the SQL Server should be configured with the volume upon which 360.

1.1.4 System

The system currently running on either version of Windows Server, a new server is required. It must have sufficient to run the new version of the application. It is also server as well. In either case, the new server should be setup with Windows Server 2012 for recommended server and 360 Server 2012.

1.1.5 File

If your client is already running on a supported operating system, but they are not at the current level, the machine 360 upgrade must be arranged prior to performing the application upgrade.

The next step is verifying which version of SQL Server is in use. If a version of 360 prior to 360 2012 is used, an upgrade to 360 Server 2012 is required.

There are two options available when upgrading the existing FOS. To plan to add the new version alongside the current version, check with the client to add either type of upgrade they want and perform the appropriate upgrade.

If an in-place upgrade of FOS Server is performed, then skip the FOS Server Migration step.

Lastly, FortiOS/OS 6.1.0 (FOS) is required. If your client is running from FortiGate that already have 6.1.0 (FOS) installed. If not FortiOS/OS 6.1.0 (FOS) will need to be installed on the FortiGate/OS server. The application has a long support and needs a number of services. We recommend that the new version on the FortiGate/OS server be installed to ensure at least 20 GB of free space while before upgrading.

7.3 Uninstall the Previous Version (In place upgrade only)

If you are installing the release on the same machine housing the previous release, you will first need to uninstall the previous release before installing the release.

1. Stop = Control Panel = Programs (uninstall = program).
2. Uninstall the old upgrade FortiGate program.

7.4 Install the Upgrade

1. Copy the installation package into the destination system.
2. Run the self-extracting executable FortiGate_OS_610.exe and
a folder will be created that contains the installable executable file.
3. Open the folder and run the installable executable FortiGate_OS_610.exe and
4. The Setup Installation Wizard opens the path where you want FortiGate/OS 610.exe installed typically = program file directory.

7.5 FOS Server Initialization (Conditional)

This section the steps in this section if you are upgrading the application to a new machine or you have created a new instance of FOS Server for the upgrade. Otherwise skip to 7.6. FortiOS/OS 6.1.0 (FOS) supports on the next page.

7.5.1 Create Backup/Folder

At the end, the old/initial release you will provided to a folder for the previous data files and separately for the log files. You will need to create a new folder for the new installation data files and separately a new folder for the new installation log files.

7.5.2 Run CMDnet

1. Open the FortiGate/OS/CMDnet folder and right-click on CMDnet.exe.

1 Upgrade BusinessWorks 10



1. The **Destination** provides the destination of the destination B2B Server.
2. The **Host** field selects the host you created that will house the destination data file.
3. The **Port** field, if you want the log file stored alongside the data file, select the port that you created.
4. The **User** and **Password** fields provide B2B user information for an account on the destination B2B server that has administrator rights.
5. Enter the name of the B2B-compatible Configuration Service server.
6. Check **Use the same administrator user ID as the source system** if you want to use the same administrator user ID on the destination system.

1.2.2 Database Migration

Follow the steps in [Figure 1.2 Database Migration](#), at [page 17](#), to migrate the source database to the target system.

1.3 BusinessWorks Upgrade

This section must be run against BusinessWorks 11.0 SP4.

- If the client is introducing a new server as part of the upgrade then follow the steps in [Figure 1.3.1 Upgrade BusinessWorks Server on the Source side](#), at [page 18](#), and [Figure 1.3.2 Upgrade BusinessWorks Server on the Target side](#), at [page 19](#), to upgrade BusinessWorks 11.0 SP4 on the new server. Then perform step [1.3.3 Upgrade the Client's BusinessWorks Server](#), at [page 20](#).

- If the client has not opted for a new server and if the current version of BusinessOffice is not later than the step 4 - 2.2, upgrading to BusinessOffice 4 - 2.2 using the upgrade to 4 - 2.2 PDF and also step 2 - 2.2, install the current BusinessOffice, located in the next step.
- If the client has not opted for a new server and if the current version is older to BusinessOffice 4 - 2.2, using BusinessOffice Upgrade using 4.0 - 2.2, using BusinessOffice, current version (until BusinessOffice 4 - 2.2) or the current server and the current step 2 - 2.2, install the current BusinessOffice, located in the next step.

7.1 Install BusinessOffice (Server)

Follow the steps in Appendix 2, Install BusinessOffice 4 - 2.2 Server in step 10.

Note: If BusinessOffice 4 - 2.2 server is already installed for example, because First BusinessOffice is already installed go to 2 - 2.2, install the current BusinessOffice, located in the next step.

Note: If you are performing a test by, with installation of BusinessOffice 4 - 2.2 alongside an existing BusinessOffice, install please make sure to select the test version, and in the test installation.

7.2 Install BusinessOffice (Client)

Follow the steps in Appendix 2, Install BusinessOffice 4 - 2.2 Client in step 10.

Note: If BusinessOffice 4 - 2.2 client is already installed for example, because First BusinessOffice is already installed go to 2 - 2.2, install the current BusinessOffice, located in the next step.

7.3 Upgrading to BusinessOffice 4 - 2.2

1. Copy the Server from the 4.0\upgrade\bin\upgrade\bin and the Client from the 4.0\upgrade\bin\upgrade\bin, in the upgrade folder.
2. Copy in the Server from the upgrading materials, 4.0\upgrade\bin\upgrade\bin after the files are extracted the upgrade folder is created.
3. In the Client Properties window click Next.
4. In the Database window click Next.
5. In the License Agreement window select I accept the license agreement and click Next.
6. In the Existing CRM Deployment Information window enter the administrator password and click Next.
7. In the Test Installation window click Next.

Note: The install takes a considerable amount of time to set, and may need a few minutes.

1 Upgrade BusinessIQ

1. Click on the Check Page self-updating availability. [Self-updating links](#) is available only after the files are uploaded the upgrade wizard is launched.
2. In the Check Prerequisites window click Next.
3. In the Welcome window click Next.
4. In the License Agreement window select I accept the license agreement and click Next.
5. In the Existing CRM Deployment Information window enter the administrator password and click Next.
6. In the Start Installation window click Next.

Note: The install takes a considerable amount of time, and may need to be run at night.

1.1.4 Import the Client's BusinessIQ Data System

After the step 7 is completed 1.1.4 is upgrading to BusinessIQ version 4.1.0.0.

Recover the administrator password from the master system, and then follow the directions in [Appendix A, Import, Backup, CRM, and Administration CRM](#) on page 27.

1.2 Perform the Upgrade

1.2.1 Add the Scheduler Web Services to the BusinessIQ Server application

Note: The upgrade application uses as the feature is installing the scheduler structure in BusinessIQ. If the feature does not exist then the upgrade application will fail during the installation phase.

1. Click Start > Control Panel > Programs > Install or uninstall.
2. Right-click on CRM BusinessIQ version 4.1.0.0.
3. Select uninstall/Change from the right-click menu.
The Uninstall is modal window opens, followed by the CRM BusinessIQ 4.1.0.0 Setup window.
4. Select Modify and click Next.
5. Accept the language selection and click Next.
6. In the Select Features window scroll down to the Services/Platform Services branch.
If the feature server WebService Services is already selected, click Cancel as the feature is already included in the BI Server application.
If the feature server WebService Services is not selected then select it and click Next.
7. In the Upgrade Installation window click Next.
8. In the Existing CRM Deployment window enter the existing CRM administrator password and click Next.
9. In the Start Service window select Start Service and click Next.

10. Do the final installation checks and test.

7.7.2. Backup the Configuration

1. Open the Intelligence 360 installation folder and execute the file ConfigurationTool.exe.
2. Select the **Y/N** **Yes**.

Note: During the backup stage, the administrator password from the source system has been copied to the destination system, so that the old password has become the password for the new system.

Note: If you have done a rolling update installation of BusinessObjects 4.1, remember to include the port number in the URL entry. For example: `https://192.168.1.100`.

- a. Change the value of the Content Management Server in the entry of the destination with the port number.
- b. Add the values of the BusinessObjects user and password.

Note: If warning dialog will appear saying that the Time Trigger is disabled because the Time Trigger does not exist. Ignore this message for now. After you run the upgrade application the new Time Trigger objects will be introduced into the database.

7.7.3. Run the Upgrade Application

- In the Intelligence 360upgrade folder, launch the executable upgrade.exe. The following window opens.

1. Upgrade Intelligence 360



Note: If you are running the upgrade application in a separate machine, stop the upgrade process. The upgrade application uses the Intelligence 360 agent library and that library is specific to the platform.

1.1.1. Running the agent

The upgrade application contains a number of steps that step is assigned a priority and step is step is next or not needed. When you start the upgrade agent, the upgrade application automatically creates the step library in the system. The steps with a step library. The upgrade application creates the step agent for the step machine in the system. If the step agent is in the system using the upgrade. For example, the step agent has the step agent in the Intelligence 360 console with the step agent in the system to support the step. The step agent for the step agent has the step agent in the system. The step agent for the step agent has the step agent in the system. The step agent for the step agent has the step agent in the system. If you are running the upgrade in a system that is in the system, the step agent has the step agent in the system.

will be disabled. If, on the other hand, the step is at a status other than Succeeded, the tool finds that the step does not exist and the step is enabled.

The following list provides the step details and names:

- WMI-360 Step Dashboard CPU Service
- WMI-360 Systemware WMI Connection
- WMI-360 Upgrade Software
- WMI-360 Step Time-Step reports in the Intelligence 360 console
- WMI-360 Input Time-Storage report
- WMI-360 Input Time-Performance Dashboard under the
- WMI-360 Configuration Key element recording
- WMI-360 Input Configuration Page report
- WMI-360 New version of Report page in all Time Reports
- WMI-360 Step report WMI Custom Status in the Intelligence 360 console
- WMI-360 New WMI Status description
- WMI-360 Create the Windows Scheduled Task Status in Intelligence 360 Data CPU
- WMI-360 Create the Windows Scheduled Task Time Intelligence 360 Data CPU
- WMI-360 Connect to dashboard service
- WMI-360 Manage a configuration of the Dashboard
- WMI-360 Handle the Time Report information reports
- WMI-360 Initiation dashboard data set
- WMI-360 Input Data Step Performance report
- WMI-360 Step Dashboard CPU Service through
- WMI-360 Step Dashboard CPU Service
- WMI-360 New version of WMI-360 Step Service

After the configuration phase completes, the steps that will be executed appear as enabled. The duration in the Enabled column is obtained and the Start and Cancel buttons are active.

Note: If any exception is reported during the configuration phase shows about the upgrade by the step upgrade by the is correct upgrade. WMI-360, Error not, and it appears in the Upgrade folder in all steps in the Intelligence Dashboard Tool. Do not continue with any further steps in the upgrade.

1. Click Start to initiate the upgrade

The application walks through all the enabled steps and performs the necessary work to upgrade the tool.

1 Upgrade Intelligence 66

There are two steps of upgrade rule:

Create the Windows Authentication Rule. This Intelligence 66 Rule 67, creates a new Windows Authentication rule named This Intelligence 66 Rule 67.

Open Intelligence 67. Service Account will change the Credential Service from being on under a system account to being on under a local account.

Either of these two steps are enabled, when the upgrade begins, the following window opens:



The current user service and user name appears by default. The user may only upgrade if the scheduled task rule is enabled. The information is used to create the Windows Authentication rule and to change the account that the Credential service rule runs under. The information entered here will be stored in new Windows Authentication in the Intelligence 66 Rule. Service Rule ... (Information is used 67).

If any exception is trapped during the installation phase, when the upgrade by the service upgrade, goes, along on the window in the upgrade mode is an error for the Windows Authentication Rule. Do not continue with any further steps in the upgrade.

1.8 Monitor the Automated Re-extraction

In the step 'Monitor the Automated Re-extraction of the Credential', the upgrade application has processed the process of setting a full system Credential re-extraction. In each step of the Re-extraction a different log will appear will be processed copying with the most recent information and setting re-extraction - this is the other information available. If new report has been added with the re-extraction mode that shows the progress of the automated re-extraction.

1.8.1.1. Step 1: The automated re-extraction is setting it up on the 67 step.

1. From the Intelligence 66 upgrade, run the BusinessObjects project named 66 BusinessObjects @ Platform and @ Upgrade.

1. Open the administrator account (admin@i360.com) in the system.
2. Click to open the Documents tab.
3. Click to open the Folders tab.
4. Expand Public Folders.
5. Expand I360.
6. Open the Migration folder.
7. Open Migration under the report named Data Migration Migration Log.
8. When prompted for a date range, select start and end dates that include the date the upgrade was run.
9. Examine the Pending Migration column.
Notice that the Pending Migration value decreases over time. When the Pending Migration value reaches 0 the migration is complete. If the value for the Pending Migration is not 0, verify the Migration Development Team.

Note: The administrator interface has access to each page of the upgrade, and the upgrade will occur five times. Therefore, a year's worth of data typically migrates over five days. The charts will be able to show status across a day, or so, for the migration is complete.

7.8 Enable the Trigger on the Daily Scheduled Task

Note: The upgrade application adds a Windows Scheduled Task named Price Intelligence 360 Daily I360 to update the report data. To ensure that the task does not conflict with the scheduled maintenance, the upgrade application disables the trigger in the task task.

The following steps describe how enable the trigger in the task.

1. Click Start > Administrative Tools > Task Scheduler.
2. Click the Task Scheduler console in the left-hand pane.
3. Right-click on Price Intelligence 360 Daily I360.
4. In the resulting context menu select Properties.
5. Click the Triggers tab and select the trigger named Daily.
6. Click Edit.
7. Select Enabled.
8. Click OK.
9. In the Properties window click OK.
10. Close the Windows I360 console and the task will run daily.

4. Maintain the Current Dashboard Version with the Upgrade

7.16. Run the Time Savings Report

Run the step 7 of upgrading from 6.1 to 6.1sp1.

Follow the Dashboard 6.1 Upgrade 1 - Performance Report on page 77.

The source database is source Timeg and the target database is source Timeelligence DB 6.1.2. The report is source Time Savings and it is contained in the DBPerformance table.

4. Maintain the Current Dashboard Version with the Upgrade

The source database to upgrade is the source of Timeelligence DB and continue using that source source again is 6.1.2 of Time Performance Dashboard (PPD), a new upgrade module. Time Performance Dashboard 6.1.2 will allow the ability to upgrade to Timeelligence DB for our source using PPD version 6.1.2 and above.

Note: This report is available for users currently using Time Performance Dashboard (PPD) version 6.1.2 and above, and applies to the 6.1.1 and 6.1.2 Source DBs.

Steps are through steps describe the required steps for other part of the upgrade module and hardware suggesting the existing dashboard during a source migration. In this case, the new dashboard will not have an existing copy of PPD 6.1.2 and earlier and the module module attempt to the upgrade source instead of detecting it from the existing dashboard using the dashboard, the module module that the application and the module 6.1.2 applications are in Time.

Note: If the upgrade does not include moving to new hardware, also check to step 7.

1. Backup the existing Timeg Database and restore it on the new server.
2. Run the upgrade Timeg/PPD upgrade to upgrade the Timeg/PPD report on the new server to the Timeg/PPD and to the database. The report is in the Timeg/PPD, Timeg/PPD/Performance table.

Note: This report needs to be set up, compare with associated rights in the Timeg/PPD/Performance database. The data associated that Timeg/PPD has already been set up for the PPD database.

3. Update the source database table to the following settings:
 - a. general database, set = PPD
 - b. database, type = Timeg/PPD
 - c. source, set = new server
 - d. database, set = Timeg/PPD/Performance
4. Restart DB on the new server.
5. From the table created in section 7.1, insert the upgrade on page 77. Also to use Time Performance Dashboard 6.1.2 and the dashboard upgrade report again.
6. Close Time.

8. Update the Analytics Control Portal

1. The license agreement window opens.
2. Select **I accept the terms of the license agreement and also that the license installation follows window opens.**
3. Accept the default location or add the address to designate other ones and then click **Next**. The license destination window opens.
4. Accept the default location or click **Browse** to identify another one and then click **Next**. The User Licensing File window opens.
5. Click **Next** to run the upgrade.
6. After the upgrade is complete, click **Close** to exit the window.

8.1. Upgrade a Former version of PPD to this release from 8.0 or 8.0 SP1 on the Same Environment

Follow these steps if the site is PPD moving to new hardware. The existing version of PPD must first be uninstalled manually.

1. Important: When upgrading the hardware to the current release, it is important to note that the old computer system contains the site key installed. In example, the latest version of the hardware delivered with 8.0 SP1. This means the security in the folder and reports will also be lost. The processing security settings will need to be re-added.

1. Remove all hardware resources including Configuration services and databases from already been upgraded to the current release.
2. Install the existing installation of the previous version of "Open Perspective Dashboard".
 - a. Delete any remaining resources that is unauthenticated.
 - a. Remove it.
3. Run installation of PPD to the release.

9. Update the Analytics Control Portal

The Analytics Control Portal (ACP) controls the Analytics Quality module (AQ) and the reporting part of the Open Perspective Dashboard (OPD). This ACP is installed in Configuration (CF) and discussed in this guide. For information on configuring AQ, see the license installation guide.

If a previous version of the Quality Reporting Portal (QRP) is installed, it must be uninstalled and then ACP installed according to these steps. There is no "upgrade" in this scenario.

When it comes to upgrading the hardware to the release we are going to replace whatever the site has already, if they have the new hardware already. When we do this it is going to need the

8 Upgrade the Analytics Control Panel

security on the folders and objects. Sometimes you are going to need to let the user know that this is going to happen. The role will then have to update the security settings.

Note: ACP can only be upgraded on Windows Server 2008 R2 machines. If the existing version is installed with an earlier operating system, the latest ACP version must be installed on a machine that meets the system software requirements.

Note: The Flow, Web Services, and Analytics must be upgraded prior to performing these steps.

8.1 Running the Installer

1. In the local system settings, double-click *Flow, Analytics, Control Panel*. Do not use the install the installation process.
2. In the Welcome window, click **Next**.
3. Select I accept the terms in the license agreement and click **Next**. The Flow, Web Services, Service window opens.
4. Enter the Service name and register name. The register name appears in the Analytics Control Panel window.

Note: Do not use the name of the server where the Flow, Web Services are installed. Do not enter localhost since it can be on the local server.

5. Click **Next**. The language selection window opens.
6. Choose the appropriate language. This applies to the control and report headers.
7. Click **Next** and then click **Install** to start the installation process.
8. After the installation is complete, click **Finish**.

8.2 Dashboard Mapping

Use the Dashboard Mapping Tool to configure how the information displays in the Dashboard. See the Analytics Control Panel Guide for detailed information.

Appendix A: Install BusinessObjects 6.1 SP4 Server

Note: Review the pre-installation and post-install instructions.

A.1 SAP BusinessObjects 6.1 SP4 Server Silent Install

This feature is introduced in the 6.1 SP4 release and automates the SAP BusinessObjects 6.1 SP4 server installation. The installation is performed automatically as a background process.

Note: The silent installation works only for SAP BusinessObjects 6.1 SP4 Server using the `msiexec.exe` command. For SAP BusinessObjects 6.1 SP4 Server Manual install using the `msiexec.exe` command, see the SAP BusinessObjects 6.1 SP4 Server Manual install notes.

1. Place SAP BusinessObjects 6.1 SP4 server setup package in the machine where you want the to install 6.1 SP4.
2. Run the configuration tool.
3. Click on the silent install button. A new window will open where you need to provide the following information:
 - a. User Password
 - b. Product Key
 - c. Install directory where you want the to install the 6.1 SP4 server
 - d. Path of the 6.1 SP4 Server setup file (Setup.exe)
4. After installing the server, a status message is shown below the Install Server button.
5. Once the installation is done, it will show that installation is completed as a status message.

A.2 SAP BusinessObjects 6.1 SP4 Server Manual Install

1. Navigate to the folder containing the BusinessObjects 6.1 SP4 Server installer and click setup.exe.
The Server Setup window opens.

Appendix B: Install BusinessObjects 4.1 SP4 Server

- a. Select English and click **OK**.
The Choose Presentation window opens.
- b. If any of the displayed presentations select your format and click Help, reviewing the additional information and **Next**.
The Welcome window opens.
- c. Click **Next**.
The License Agreement window opens.
- d. Select **I accept the License Agreement** and click **Next**.
The Configuration Product Registration window opens.
- e. Enter the Product Key and click **Next**.
The Select Language Packages window opens.
- f. Select English and click **Next**.
The Choose Install Type window opens.
- g. Select Custom/Upgrade and click **Next**.
The Configuration Distribution Profile window opens.
- h. Select the list destination path for BusinessObjects 4.1 SP4 and click **Next**.

Note: The support for the product is large, you may want to choose a path that includes a drive with enough space.

If you are installing BusinessObjects in a drive other than the indicated drive, click Browse and select a folder in the browser drive and then click **Next**.

The Select Packages window opens.

- i. Select only the following features:
 - WebTier
 - Java Web Applications
 - Tomcat 7.0
 - Server
 - Platform Services
 - Content Management Server
 - File Repository Services (FRS)
 - Event Service
 - Web Application Container Server
 - Platform Processing Services
 - Platform Scheduling Services
 - WebTier Web Services
 - Administration
 - Connectivity Services

- Connectivity Processing Service
- Web Intelligence Service
- Web Intelligence Processing Server
- Web Intelligence Scheduling Service
- Dashboard Service
- Administrative Tools
 - Upgrade Management Tool
- Developer Tools
 - Web BI platform server (WBI-DB)
 - WBI BusinessObjects Service (wbi-ssn-DB)
- Database Service
 - Service (SQLDB)
 - Service (DB)
 - Microsoft SQL Server
 - BusinessObjects connector
- Service

1. Create Web

The Server Web is a required installation window option.

2. Select Web is new WBI BusinessObjects 6.1 platform deployment and create Web

The Server Creating WBI Database Tool window opens.

3. Select Microsoft SQL Server using ODBC and create Web

The Server Creating Building Database Tool window opens.

4. Select the existing database and create Web

The Configure Server Intelligence Agent dialog window opens.

5. Change the default Web Name and Web from the user variable, or change the name and port for existing user variable and then create Web

Note: The user variable, except the default, throughout the process. The existing user variable is recommended to support the default port name with `WBI`.

Note: If you try to change a port that is in use you will receive an error indicating either the port is in use or it is reserved.

Best Practice: Prior to performing setting it is the value of the port name with an unused port is suggested. Review the port the variable.

The Configure Server Management Service (DB) window opens.

6. Change the default ODBC Port and create Web

The Configure ODBC Account window opens.

Appendix B: Install BusinessObjects 6.7 SP4 Server

- 1) Enter and confirm the Administrative Account Information Password.
- 2) Enter and confirm the DBS Account Key and click **Next**.

Note: The installation wizard suggests you will need to choose a password that is different from the existing password. However, the password as it will be required in the Configuration Tool.

The Configure DBS Properties Database - DBS Server DBMS window opens.

- 3) Select intelligence, DBS, BDCB option in the Server DBMS list and enter the Password.
- 4) Accept the default Configure, DBS, BDCB for the Database and click **Next**.
The Configure Server window opens.
- 5) Select Server Grouping Database, accept the default Connection Pool, Username and Password Pool, and click **Next**.
The Configure ODP connecting Pool window opens.
- 6) Accept the default ODP connecting Pool and click **Next**.
The Configure Information window opens.
- 7) Accept the default Properties and
- 8) Enter and confirm the Properties Account Password and click **Next**.
The Select Connectivity for Business Manager Integration DBMS window opens.
- 9) Select the not configure connectivity to DBMS option and click **Next**.
The Select Connectivity for Enterprise Information Manager window opens.
- 10) Select the not integrate connectivity to Enterprise Information Manager and click **Next**.
- 11) Click **Next** on the final installation window.
An installation is reported in the SAP BusinessObjects Business Intelligence Platform window while the installer is running.
- 12) Click **Next** and then **Finish** after the installation completes.

Appendix B: Select BusinessObjects 4.1 SP4 Client

1. Navigate to the folder containing the BusinessObjects 4.1 SP4 Client installer and click **Install**.
The "Select the client language" window opens.
2. Select **English** and click **OK**.
The "Client Prerequisites" window opens.
3. If any of the displayed prerequisites listed under **Default** and **Web Help** are missing, the **prerequisites** window will **Fail**.
4. Click **Next** on the "Prerequisites" window.
The "License Agreement" window opens.
5. Select **I accept the license agreement** and click **Next**.
The "Select language Manager" window opens.
6. Select **English** and click **Next**.
The "Configure destination folder" window opens.
7. Select the full destination path for BusinessObjects 4.1 SP4 Client Tools and then click **Next**.
Note: The default for the entire product is **yes**. Select a pathway that includes a drive with at least 4 GB free.
The "Select Features" window opens.
8. Select only the following features:
 - Client Components
 - Web Intelligence Main Client
 - Business View Manager
 - Report Conversion Tool
 - Universe Design Tool
 - Data as a Web Service
 - Information Design Tool

Appendix B Install BusinessReports 6.7 SP4 Client

- Transaction Management Tool
- Data Protection Administration Tool
- Wiggins
- Database Components
 - SAP BusinessReports 6.7 platform Java 626
 - SAP BusinessReports 6.7 platform Web Services 626
 - SAP BusinessReports 6.7 platform Java 626
 - SAP BusinessReports Semantic Layer Java 626
- Database Drivers and Security
 - Oracle 626
 - SAP 626
 - SAP 626
 - Microsoft 626
- 6. Close **Web** to end the installation.
 - The installation is reported in the SAP BusinessReports Business Intelligence Platform window.
- 6. Close **Web** and then **Trans** after the installation completes.

Appendix C: Building Recommendations

There are 3 different components to building in an Intelligence 360 ecosystem:

- **Business/Operational Intelligence Reporting** (includes some intelligence, 1990, 2000)
- **Traditional BI**
- **Intelligence 360 Analytics** (includes some intelligence, 2000)

C.1. Traditional

In this component, all reports are physically stored in the source.

This is building 360 in ecosystem `Traditional`.

- Usually 1-3 layers: `TraditionalBusiness/Operational/Intelligence` is `Traditional`.

The content of this table has to be `Traditional`. `Traditional` is `Traditional` and:

- `Report`
- `Table`
- `Table`

is `BI`, and this are stored in the source but cannot directly be copied elsewhere since the path where they are stored is also copied somewhere in the reporting database.

In order to have a better building, a combination of both `Report`, `Reporting` and `Traditional` are needed.

Note: In order to be able to replace a copy of the `Traditional` tables, we have to use the same reporting database or a building of the reporting. Reporting name and table are as different as the database has to be the same. Otherwise we will not have access to the `Traditional` reports, data, etc. and the copy of the `Traditional` tables above will be useless.

Appendix C: Backup Recommendations

C.2 Repository

The repository database for each customer partition is located in the `ProdBase`. If any changes are made, such as adding a table, then it is in another location, so the change physically happens on the `ProdBase`, and then the partitions are updated in the code. If an add is missing at the code, and not at the `ProdBase`, then that add is missing at the `ProdBase`, then could be inconsistent after that time. Therefore, the backup would be up to date because the partitions are not updated.

Repository, source and `ProdBase` have to be backtracking after. The content of the database and tables can only be restored from the backups in case of a data failure.

C.3 Intelligence DB DB

The `Intelligence DB` database is the Data Warehouse database. Each DTS extraction will add new data to the database.

Note: The content of the `Intelligence DB` database can be recovered from the production database. The only tables not replicable from the production database are the Mapping tables.

C.4 Minimum Backup Recommended

- Complete backup after the initial extraction
- Daily backup of the source and group tables database (DBS, code, prod, prod).
- Daily backup of the BusinessReport repository, intelligence, DBS, prod.

C.4.1 Backup Using the Import Wizard Tool

C.4.1.1 Create the Backup File

1. Open the Import Wizard BusinessReport, in MS Access.
2. Enter information is content in the source repository.
3. Select the DBS file for destination and click Next.

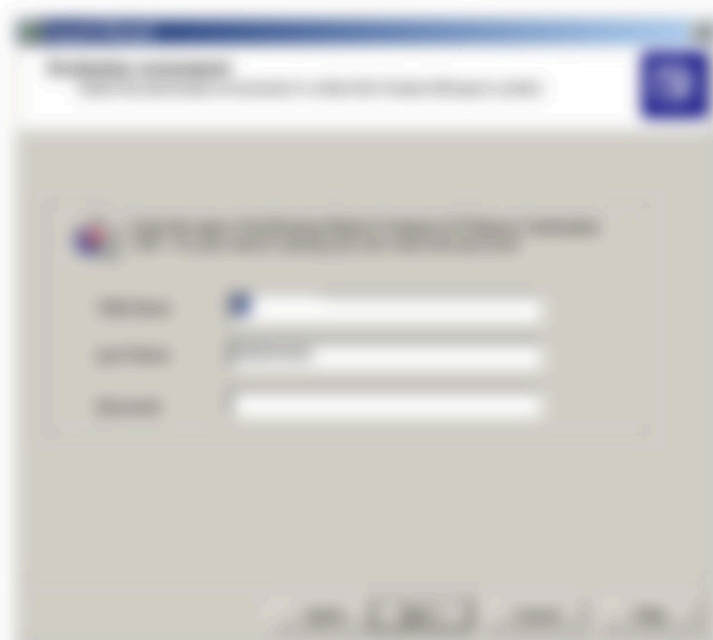


1. Select all the objects to import (most all options are selected).
2. Click **Next**.
3. Click **Select all** and then **Next** for each of the following windows:
 - Tables and Views
 - Triggers
 - Procedures and Functions
 - Select application folders and objects
4. Select **Import all databases and all connection objects** and click **Next**.
5. Select **Import all reporting objects** and click **Next**.
6. Click **Finish** to start the import process.
7. Check the **Import Summary** window to verify that all or warnings reported and all the objects imported successfully.

6.4.2.2 Import the Backup File

1. Open the **Import Wizard** tool.
2. Select the **SQL** file that was created as a backup for the Source SQL.
3. Select the **SQL** destination and then click **Next**.

Appendix C: Backup Recommendations



1. Select the options to import, ensuring all options are selected, and click **OK**.
2. Select the **Advanced** options and click **OK**.



3. Click **OK** on the Importing Server Group message window.
4. Click **OK** on the Importing Server Group message window.

- Create and manage
 - Catalogs
 - Profiles and backups
 - Select application tables and objects
6. Select input of processes and all connected objects and save them.
 7. Close Project.
 8. Check the input summary window to be sure that all the settings reported and all the objects reported successfully.
 9. After the process is complete, check the operations window from OMS or Manager to verify the objects backup successfully. For details, see, [Verify the operations](#), in page 27.

D

Appendix D: Database Migration

An application is provided in the settings that performs all the steps necessary to transfer the source database to the destination machine. The application is available in several languages and can be configured to run on a variety of operating systems.



Appendix B Database Migration

B.B.1 Assumptions

- The test will be run on the server that the databases are being copied to.
- SQL Server 2005 is running on the destination 2005 server.
- The names of the databases on the source 2005 server are the same as those on the destination 2005 server. As long as 2005 can read our information, these names should be:
 - intelligence_00
 - intelligence_00_logging
 - 0000_0001_0000_0000

B.B.2 Running the Test

1. Enter the log information for the source 2005 server.
2. Enter the log information for the destination 2005 server.
3. Click First Migration Conditions.
4. Select the databases you want to migrate. Check the box and click to select multiple databases.
5. Click Transfer databases.
While the transfer is running, the number of databases copied, along with the progress of the selected file copy, displays.

In the event that the test is not capable of completing the migration due to the steps in Appendix C, manually export the First Intelligence 2005 databases on page 35.

Appendix E: Manually Migrate the Pure Intelligence DB Database

This section describes the steps necessary to manually migrate the Pure Intelligence DB database (intelligence_db, intelligence_db_testing, DB_testing, DB_testing_2008, and DB_testing_2009) from the source system to the destination system. It is assumed that the affected application has already been set up on the destination system.

E.1. On the Source System

1. In IBM Server Management Studio, connect to the source IBM Server.
2. In the Object Explorer pane, expand the Database node.
3. Right-click on one of the Pure Intelligence DB databases.
4. On the context menu, select Properties.
5. On the Database Properties window, select Files from the navigation pane.
6. Record the folder used for the data files (.ndf).
7. Record the folder used for the log files (.ldf).
8. Close the Database Properties window.
9. In the Object Explorer pane, right-click on the same database.
10. On the context menu, select Tables and then Tables.
11. Check DB on the Object Database table window.
12. Repeat the process for the remaining databases.

Note: All the data files have a common path.

13. On the source system, create a database alias in the context menu of the data files.

Note: All the log files have a common path.

Appendix B: Manually Migrate the Pro Intelligence DB Database

16. If the log file name is different between the source and the destination, create a network share to the common root of the log file.

B.2 On the Destination System

1. In SQL Server Enterprise Studio connect to the destination SQL Server.
 2. In the Object Explorer pane expand the Database node.
 3. Right-click on one of the Pro Intelligence DB databases.
 4. On the context menu select Action > Attach.
 5. Click OK in the Attach Database window.
 6. Repeat the previous for the remaining Pro Intelligence DB databases.
 7. When you are finished you provided a table name to the data file. Open that table and verify copies of the tables intelligence DB, intelligence DB_logging and DBS_ALERT from source.
 8. Open the original table for each of the three database tables and view the contents.
 9. Move the copy contents of the three tables to the real table for table mapping.
 10. When you are finished, if you provided a separate table for the log file, repeat the previous from the log file table.
 11. Use the network share to copy the data files from the source to the destination.
 12. Use the network share to copy the log files from the source to the destination.
 13. In SQL Server Enterprise Studio connect to the destination SQL Server.
 14. Right-click on the Database node and in the context menu select Attach.
 15. In the Attach Database window click Add.
 16. In the locate Database File dialog, navigate to one of the data files and click OK.
 17. In the Attach Database window click OK.
 18. Repeat the previous for the remaining databases.
 19. From the Database and contents of the Intelligence DB table, remove ProIntelligence.
- This completes the manual database migration process.

Appendix F: HSS Server 2012

This chapter is intended for users with a HSS Server 2012 environment. It describes the steps needed to set the Universal ODBC connection to use HSS Server 2012 when instead of HSS Server 2008 R2.

Users can update the step-by-step approach to set HSS Server 2012 ODBC to Power Intelligence BI.

The 64-bit version of Power Intelligence BI supports HSS Server 2008 R2. Starting from the 32-bit version, Power Intelligence BI supports HSS Server 2012 and HSS Server 2008 R2 in compatibility mode. Additionally, the 32-bit version of Power Intelligence BI supports BusinessIntelligence 11-SP1 for reporting and analysis, and 64-bit supports SAP Business Intelligence 1.0.

The setting up of the 32-bit Power Intelligence BI Business Intelligence environment is quite different from the earlier versions. Included in the 32-bit module is an "installer" that updates the "test" file.

Note: The process of generating "installer" file in production ODBC is described in the following appendix.

The advantage that comes with the 32-bit package from the ODBC connection using HSS Server 2008 R2 above. The user that set using HSS Server 2012 should follow the section to update the Universal ODBC connection to use HSS Server 2012 ODBC driver.

F.1 Required Third Party Software

- SAP BusinessIntelligence BI Platform 11-SP1 Client Tools
- HSS Server 2012

F.2 Update the Universe

Follow the steps below to update the Universal Query ODBC to use HSS Server 2012 when above the Intelligence BI.

1. Select the **Intelligence Group** **Test** from **Test** > **MSB Business Intelligence** > **MSB BusinessReports & Platform** > **Test** **Tools**.
2. Enter the **Intelligence Group** with **Intelligence** authentication. Select the **MSB BusinessReports & Platform** > **Test** under the **Tools** and click **OK**.
3. Click **Cancel** in the **Test Group Wizard** window.
4. Click **Source** and select the **Intelligence** > **Test** and then click **OK**.
5. Click **Available Intelligence** under **Intelligence** > **Test** and then click **OK**.
The window is opened in the **Intelligence Group**.
6. Click **OK**.
7. Select **OK** and click **OK**.
The **Connection Field** window opens.
8. Double-click **Intelligence** > **Production** > **Test** > **MSB**.
The **MSB Intelligence** > **Production** > **Test** > **MSB** window opens.
9. Select **Tools** > **Connections** to open the **Connections Field**.
10. Double-click **Intelligence** > **MSB** to open the **MSB Intelligence** > **MSB** window. Then click **MSB**.
The **MSB MSB, Service 2010** window opens with **MSB** Service selected.
11. Select **MSB** Service under the **MSB MSB, Service 2010** window and click **MSB**.
12. Enter the user **Name** and **Password**.
13. For **MSB Service Name** select **Intelligence** > **MSB** and click **Test Connection**.
14. Click **OK** in the **Message** window.
The **Configuration Parameters** window opens.
15. Click **MSB**.
The **Configuration Parameters** window opens.
16. Click **MSB**.
The **Configuration Parameters** window opens with **MSB MSB, Service 2010** under **Intelligence** > **MSB**.
17. Select the **Intelligence** and select **Test** > **Group**.
The **Group** window opens.
18. Click **Source** and select the **Intelligence** > **Test** > **Tools** under **MSB BusinessReports & Platform** > **Test** under the **Tools** and click **OK**.
The **Group** window is opened in the **MSB BusinessReports & Platform** > **Test** under the **Tools**.

Appendix G: Import Business CMO into Destination CMO

Here are different steps to the importing BusinessObjects Reporting or other content of Intelligence BI being imported. The Intelligence BI content goes to CMO. The reports management

tool is used. When upgrading from 6.7 to 6.8 the tool is not available and the Promotion Manager must be used instead.

The source BusinessObjects system must be upgraded from that old system to the new BusinessObjects 6.7 SP4 system. It is important that everything comes from the source system into the destination system.

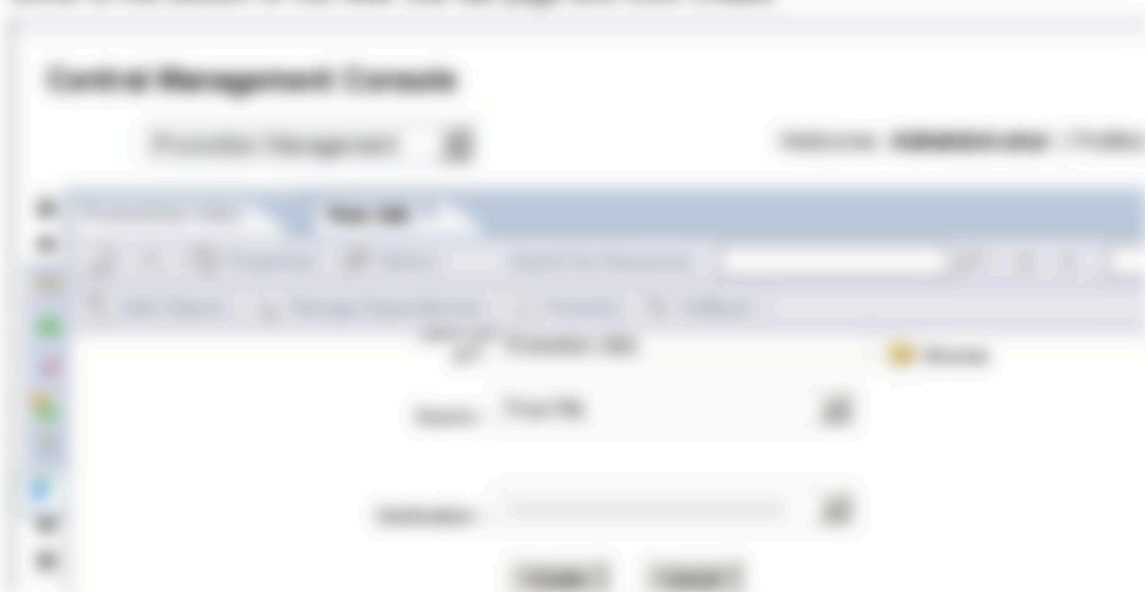
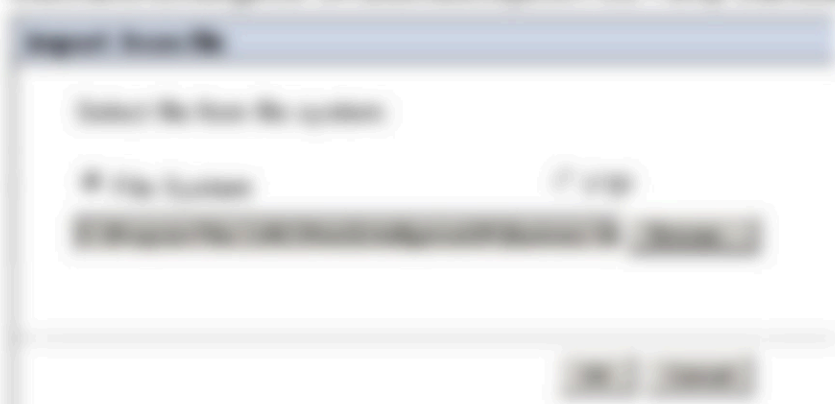
Note: During the CMO import the administrative password from the source system is copied to and updates the administrative password in the destination system.

1. **Click Start > All Programs > SAP Business Intelligence > SAP BusinessObjects > Promotion > Upgrade management tool.**
The Welcome window opens.
2. Select English as the language.
3. **Click Complete Upgrade and then click Next.**
The Upgrade window opens.
4. Select **Yes** to **Yes** to Upgrade Scenario.
5. In the **Source** section enter the CMO Name, User Name, and Password for the source existing system.
6. In the **Destination** section enter the CMO Name, User Name, and Password for the source new system and then click **Next**.
The Summary window opens.
7. **Click Next.**
The Upgrade window shows the progress as the objects are imported from the source old system into the new one.
8. **Click Close** when the completed window opens.

B.1. Salesforce CRM 5.0 upgrading to 5.5

1. From the Control Management Console select **Import** under **Transfer Management**. The **Transfer** will not open.
2. In the **Transfer** select **Set**, then **New Job**. The **New** will not open.
3. In the **Source** field, select **Setup** as a **New CRM** from the drop-down. The **Setup** to **Source** window opens.
4. From the **System**, enter **Name** and **Password** of the source CRM system and then click **Setup**. The **New** will not open.
5. In the **Destination** field, select **Setup** as a **New CRM** from the drop-down. The **Setup** to **Destination** window opens.
6. From the **System**, enter **Name** and **Password** of the target CRM system and then click **Setup**. The **New** will not open.
7. Click **Fields**. The **Field Mapping** window opens and has two display modes. The left pane has the different categories of fields and the right displays the fields within that category. Everything from the source system, except the application category, is to be copied into the target system.
8. Open each category in the left pane, except for the application category.
9. If any fields appear in the right pane, select all the fields and click **ADD**.
10. After you have added all the fields for all the categories, except for the application category, click **Done**. The **New** will not open.
11. Click **Manage Dependencies**.
12. Click **Apply & Close**.
13. Clicking **New** causes the job to be set up in a later time.
14. Click **Preview** to view the management job that transfers all the selected items from the source into the target.
15. To check the progress of the management job, select **Instance Manager** from the Control Management Console options drop-down. All the jobs currently running or pending are listed.
16. From the **Pending** section and click **Find** to see only the currently running jobs which include the transfer-related items.

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After the job is completed, the owner of the job changes and a similar space in the cell showing the contents of the window.

6. Click **Storage Dependencies**, and scroll to the bottom of the resulting **Storage Dependencies** page and click **Apply & Close**.

The screenshot shows the AWS IAM console 'Users' page. The left sidebar has a menu with 'Users' selected. The main content area has a header 'Users' and a table with columns 'Name', 'Status', and 'Access'. A 'Promote' button is located next to the 'Name' column header. The table contains one user entry with the name 'user-1' and status 'Active'.

6. Enter the IAM Name, User Name and Password and click Log In.
7. At the bottom of the page click Promote.
8. To confirm the job finished successfully, select Instance Manager in the IAM to open the page.

Control Management Console

Instance Manager

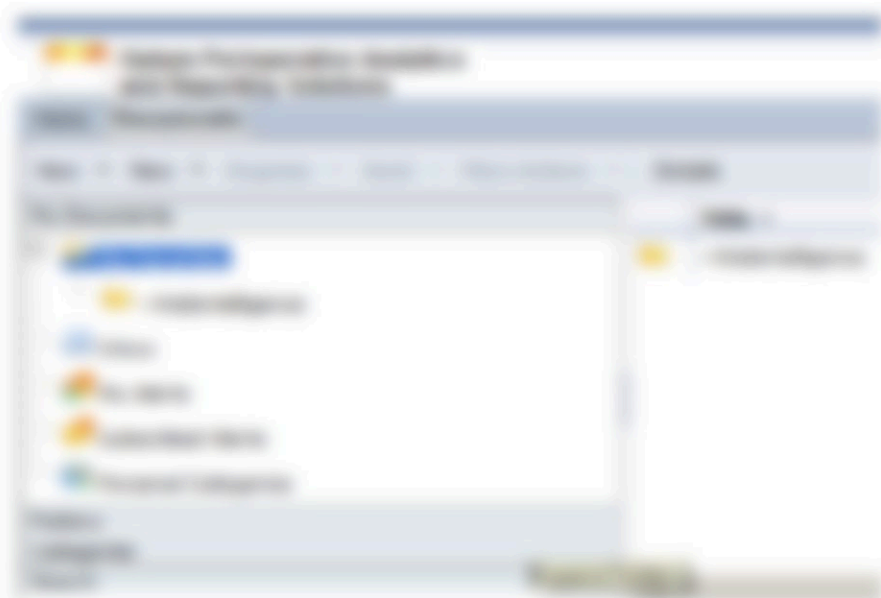
9. In the Instance Manager window click Status.

Subscriptions waiting for following status

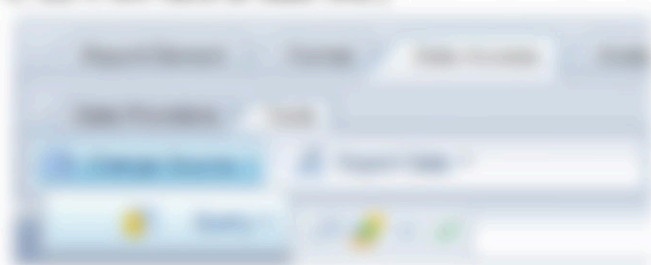
Subscription	Status
Subscription	Subscription
Subscription	Subscription
Subscription	Subscription
Subscription	Subscription

10. Periodically click Promote to update the Status in the user page. After a short while the job should appear with a Completion Time value and a Status value of Succeeded.

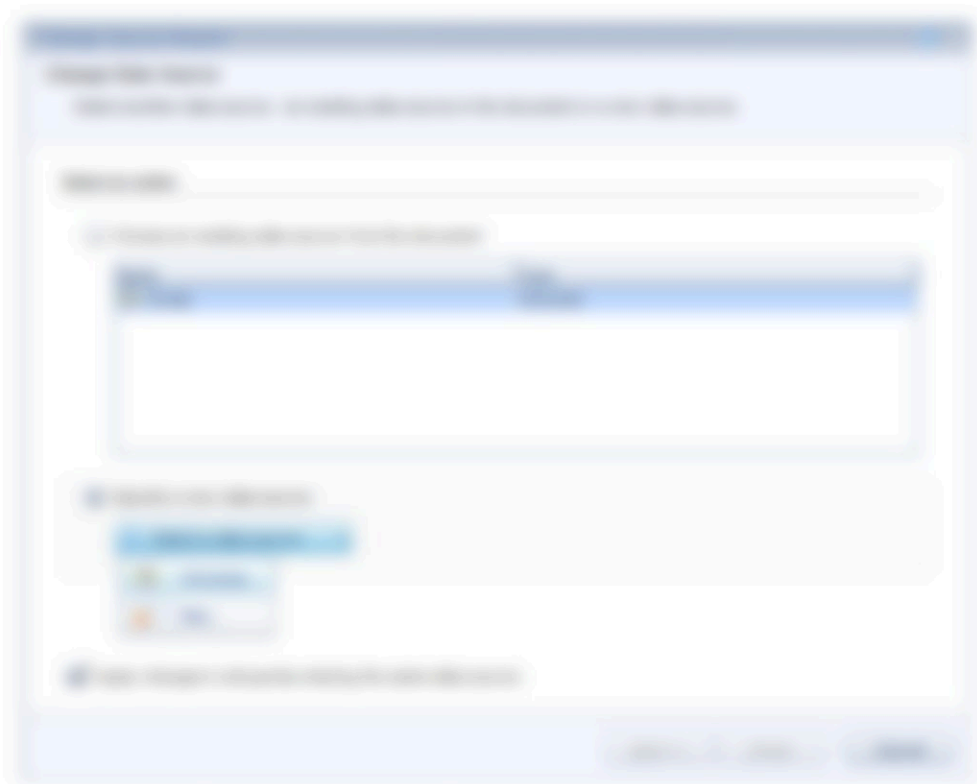
Appendix C Remapping a Report



1. Open the KB -> Knowledge folder that contains the Time-Planning report in the remapping.
2. Right-click on the Time-Planning report in the remapping and click **Remap**.
 - a. Open Report From Source that contains the report.
3. On the right-hand side of the report panel click **Change** and select **With Data**.
4. Select the Data Source tab and then the Tools tab.
5. Click **Change Source** and then **Tools**. If your particular report may have more than one Data, do a test to see how it looks like.



6. Remap the report objects:
 - a. Look at the name of the object in the list. If it is not the name of the object, select the object, click **Cancel** and add **Development** to **Knowledge**.
 - b. If the name is as expected then select **Tools**, change it to all queries sharing the same data source.
 - c. Select **Specify** in the Data source and select a data source.



11. Select the Target column that you want to map.
In our example the target column is Intelligence (ID) (1-2).

Appendix C Remapping a Report

Remapping a Report

Report Name:

From	To
Sales	Sales
Salesperson	Salesperson
Sales Amount	Sales Amount
Sales Date	Sales Date
Sales Location	Sales Location
Sales Status	Sales Status
Sales Type	Sales Type
Sales Category	Sales Category

New Report Name:

New Report ID:

New Report Category:

OK Cancel

The Change Data Source window appears.

1. Click **OK**.

The Report Mapping window appears. This is where new target reports are assigned for any control reports that will be automatically mapped.

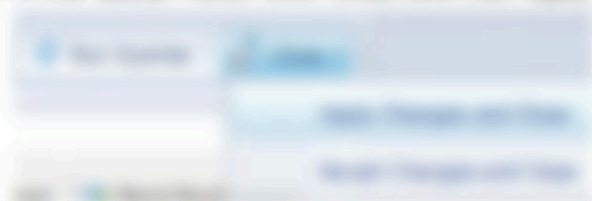
Note: The way you select the report in the "Current" column requires the report in the "New" column to be mapping to manually. For example, When Revenue Total appears in both the Current and New columns.

2. If the report in the report When Revenue Total does not appear in the New column or that row.

The Report Mapping window appears with the new data control expanded to show the current target report.

3. Select this target report name.

6. Expand the map with an object against which you've matched the string in the map field in the object mapping and select the object.
7. Click OK.
8. After you have performed all the required remapping and confirmed that an object in the filtered view matches the filter name, click **Filter**.
9. In the **Filter** pane, click **Filter** and then click **Apply Changes and Close**.



You are returned to the main **Report** pane.

10. On the left-hand menu group, select the **Filter** tab and then click **Filter**. This completes the remapping and you can close the **Report** pane.

Appendix J: Setup the SMTP Server to E-mail an IPI Policy

This chapter describes the process to schedule a report to be sent via email to the administrator and other the IPI user. This report is scheduled to run after each day's test and helps in retention control.

Run the IPI process is running under the as requested, as well as detect any retention issue as soon as possible.

The process involves the following:

- The report uses the same data collected as the IPI, except the different hour.
- No specific security has been assigned to the report. It is visible from the administrator reports, both as any other report.

J.1 Mail setup – Configure Mail, IntelligenceIntelligence

These steps explain how to set up the Mail server:

1. Open Control Management Console (CMC).
2. Log in as an administrator user.
3. Open the Service menu.
4. Select the IntelligenceIntelligence.
5. Select Configuration.
6. Select Email from configuration destination and click Add.
7. With the email option selected, complete the following fields:

Server Name	
Host Name	
Port	
Authentication	☐ Yes ☐ No
SMTP user Name	
SMTP Password	
From	

Server Name: Enter the fully qualified domain of the SMTP server.

Host: Enter the name of the SMTP server.

Port: Enter the port that the SMTP server is listening on. (The standard SMTP port is 25.)

Authentication: Select **Yes** or **No** if the job server must be authenticated using one of these methods in order to send email.

User Name: Provide the user name that has permission to send email and attachments through the SMTP server.

Password: Provide the user name with the password for the SMTP server.

From: Provide the email email address. Users will receive the default email they scheduled an report.

To, To, Subject, and Message: Set the default values for users who schedule reports to the SMTP destination. Users will receive these defaults when they schedule an report.

6. Click **Update** to save the configuration.

7. Run the OMS.

The BusinessReports installation is now ready to send email messages.

2.2 Steps to Schedule the Scheduled OTC, Status Report

This report is designed to let a third subscriber when the OTC has failed. The report creates an incident. This condition that triggers the email to the assigned administrator user.

The following steps explain how to schedule the report.

1. Open OMS using the administrator user.
2. Navigate to the OTC installation folder.
3. Double-click the Scheduled OTC, Status report and report template.
4. Click **Resource**.

Appendix 2: Setting the SAPF Server to 0 month on 0% Profit

6. Set the parameters according to the schedule in the applied daily, weekly, time, etc. and click OK.

2. SAPF0000 The report must be scheduled to run the report day of the 0% forecast, scheduled. The recommended report execution time is between 0% daily and 0% weekly after the 0% period.

7. Click Notification.
8. Select it and then click on run and enter the appropriate values for From, To, Subject, and Message in display in the window.
9. Click Schedule to enter the details used for the scheduled report.

Appendix 2: Setting the ODPF Server to 0 result on 0% Page

6. Then create and select Oracle database instances when there are more than 10 instances of an object. Select the default value of 100.

SQL*Plus Command	
CREATE TABLESPACE	
CREATE TABLESPACE	
CREATE TABLESPACE	
CREATE TABLESPACE	
CREATE TABLESPACE	

7. Run SQL*

Appendix K: Defining Time Points

The **Time Point** table allows users to report the location of a procedure in BusinessObjects using user and site events recorded in user defined fields. The Configuration Tool allows users to define these time points, and makes the changes in the Intelligence IQ database that allow users access to the time

points in user time reports. The difference between two time fields is calculated during the Intelligence IQ ETL, and the value is stored in the Intelligence IQ database.

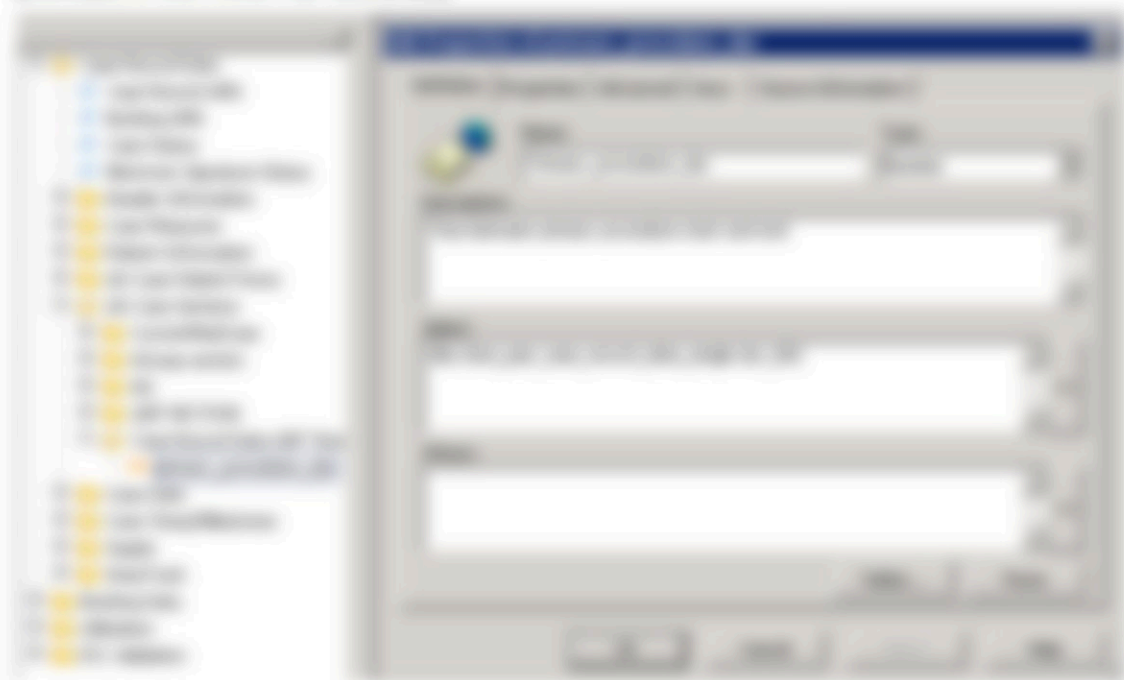
K.1 Classes

Four classes, one for each time category, act as containers for the time points. These are added as their subcategories of the four time categories classes that already exist within the database.

- For time points based on the user record data form categories, a subcategory is added to the user defined **User Record** class:
 - User Record Data <= User Record Data Record Data <= User Time Point
- For time points based on the user record patient data form categories, a subcategory is added to the **UFI** User Patient Forms class:
 - User Record Data <= UFI User Patient Forms <= User Record Patient Data <= User Time Point
- For time points based on the booking data form categories, a subcategory is added to the user defined **Booking** Forms class:
 - Booking Data <= Booking Forms <= Booking Data <= User Time Point
- For time points based on the patient data form categories, a subcategory is added to the **UFI** Patient Forms class:
 - Booking Data <= Patient Forms <= Patient Data <= User Time Point

B.2 Time Pair Objects

Time pair objects are added to the database under the time category that is specific to the user defined time zone pair rules identified above. A pair is added using the Name and Description provided in the Time Pair definition.



The Qualification is set as Minimum and the use of Minimum flag is ignored.



B.2 Creating or Editing Time Plans

The Time Plans app within the Configuration Tool displays a read-only view of the time plans from the database dictionary. It allows users to add, edit, or delete a read-only view of the dictionary. The read-only view of the dictionary updates the database with any edits when the user clicks Save.

Appendix B: Building Time Plans



- Click **New** to create a new time plan or **Edit** to modify an existing time plan.

- a. **Name** is a single-line value with a maximum width of 60 characters.
- b. **Description** is a multi-line value with a maximum width of 250 characters.
- c. The **Category** list is created during the form load event when the user selects value in **Category** is queried to list all form categories that have user defined fields with a maximum value of 1000000. The value of the multi-line attribute for the user depends on the user's selection, and the resulting collection of form categories and multi-line attributes that creates the **Category** list.
- d. **From Time** and **To Time** are **From Time** and **To Time** are requested after the user selects a category, based on the form categories and multi-line attributes.
- e. **Group** group elements are displayed only if the user selects a **From Time** and **To Time** that are both from the same group.
- f. **Clear Field** is used to message that requires the fields associated to the window.
- g. **Clear Group** is required that the changes be added to the local copy of the time plan document. Before the values are saved the following checks are run against the newly entered values:
 - **Name**, **Category**, **From Time** and **To Time** are required and must have values.
 - The **Name** cannot already be in use. There cannot be a different use in the local copy with the same name.

Appendix B: Define Time Pairs

- The **old Time Pair** **New Time** cannot be in use.
- **Time Pair** cannot be equal to **New Time**.
- If one **old Time Pair** is valid, then both **old Time** and **new Time** is valid.
- If the **old Time** and **new Time** requirements for the **new Time** of the **Time Pair** definition is updated and the **old Time** is dropped.
- Once **Valid** is removed a **Time Pair** from the **new Time**, it is confirmation being given.
- Once **Time** is added the **old Time** from the **new Time** of the **Time Pair** definition, the **new** is confirmed and the **old** is being updated.
- In the **new**, all the changes made to the **Time Pair** are added to the **new Time** only. Once **Valid** and **Time Pair** is added the changes to the definition, or once **Valid** is done the **new** without using the changes.

The Configuration Tool summarizes the **Time Pair** definition changes made in the BusinessObjects universe with the Configuration UI universe.

B.4 Time Pair Data Tables

The following tables are added to the Configuration UI universe. They contain the actual calculated differences of the **Time Pair**. The tables are named after the **Time** category associated with the **Time Pair** and contains the source. The tables also include the multi-row attribute of the **Time Pair** that makes the **Time Pair** table a multi definition meaning there is a fixed number of columns available for data storage (10). Hence 10 is the **Time Pair** or the number of **Time Pair** that can be defined for a given **Time** category, multi-row attribute **Time**.

- **Time Pair** **Time** **Source** **Time** **Multi**
- **Time Pair** **Time** **Source** **Time** **Single**
- **Time Pair** **Time** **Source** **Pattern** **Time** **Multi**
- **Time Pair** **Time** **Source** **Pattern** **Time** **Single**
- **Time Pair** **Custom** **Source** **Time** **Multi**
- **Time Pair** **Custom** **Source** **Time** **Single**
- **Time Pair** **Custom** **Pattern** **Time** **Multi**
- **Time Pair** **Custom** **Pattern** **Time** **Single**

Each of the eight **Time Pair** data tables also need to be added to the universe with the appropriate join as shown in the following example.



Note: Each of the items also need to be added to the Customized Time Reading unit content.

B.2.1 Single Line Item

The following table shows the time and differences when the time fields have the value null (i.e., 0) or that is different from zero.

Appendix B: Surface Time Points

Time Point	Ref	Type	Description
current_days_at	6	60	This indicates the current days_at value in the associated test table.
			The example in the table time point column heading, $\text{days_current_days_at}$ indicates the column in the same table in CDISC's current heading, days_at is equivalent to heading, at .
day_20	7	60	Contains the calculation difference for the time point that has been assigned the day_20 column in the table. 7 day weeks.
day_210	7	60	Contains the calculation difference for the time point that has been assigned the day_210 column in the table. 7 day weeks.

B.2.2 Multiple days

The following table uses the time point differences where the time table uses the value multiple $\times 7$ in CDISC's test report table.

Time Point	Ref	Type	Description
current_days_at	6	60	This indicates the current days_at value in the associated test table.
			The example in the table time point column heading, $\text{days_current_days_at}$ indicates the column in the same table in CDISC's current heading, days_at is equivalent to heading, at .
at_days	6	60	This indicates the at_days value in the associated test table.
day_20	7	60	Contains the calculation difference for the time point that has been assigned the day_20 column in the table. 7 day weeks.
day_210	7	60	Contains the calculation difference for the time point that has been assigned the day_210 column in the table. 7 day weeks.

B.3. Calculating Time Points Durations

Appendix B: Station Time Flows

The following chart shows the algorithm used to calculate the location for time settings data.



B.6 Time Planings Report

The standard report named Time Planings is added to the "Information" folder and shows the Time Plan definitions.

