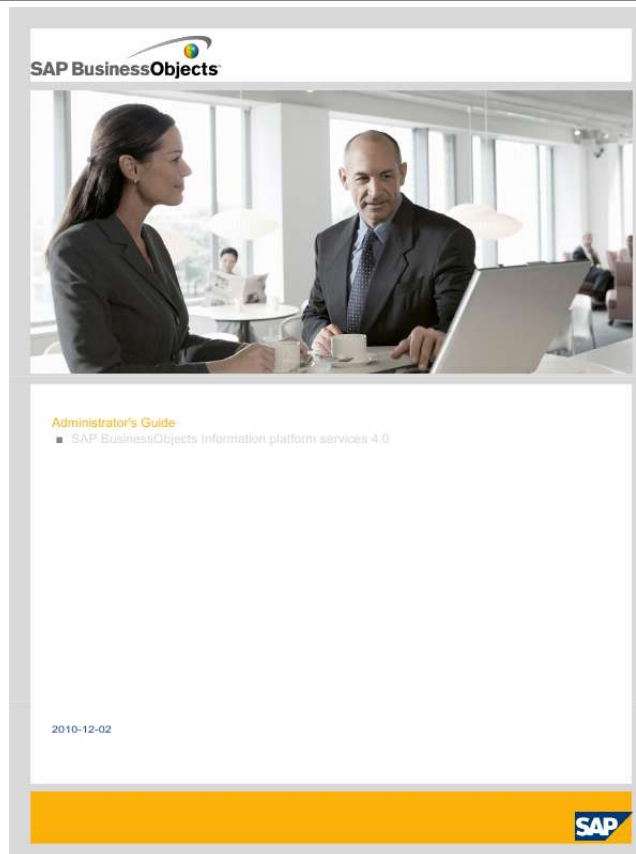




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0. You'll find the answers to all your questions on the BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0**  
**User guide BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0**  
**Operating instructions BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0**  
**Instructions for use BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0**  
**Instruction manual BUSINESS OBJECTS INFORMATION PLATFORM SERVICES 4.0**



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**Manual abstract:**

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2 20.3 Index 11 2010-12-02 Contents 12 2010-12-02 Getting Started Getting Started 1.1 Before you start 1.1.1 Key concepts 1.1.1.1 Services and servers The following diagram shows a hypothetical installation of Information platform services. Note: The nodes, servers, and services shown are for illustrative purposes only. The number of hosts, nodes, servers and services--as well as the type of servers, and services--will vary in real-world installations.

13 2010-12-02 Getting Started Two hosts form the cluster named ProductionBISystem, with two hosts: · The host named HostAlpha has Information platform services installed and is configured to have two nodes: · NodeMercury: contains an Adaptive Job Server (NodeMercury.AJS) with services to schedule and publish reports, an Input File Repository Server (NodeMercury.IFRS) with a service to store input reports, and an Output File Repository Server (NodeMercury.OFRS) with a service to store report output. NodeVenus: contains an Adaptive Processing Server (NodeVenus.APS) with services to provide publishing, monitoring, and translation features, an Adaptive Processing Server (NodeVenus.APS2) with a service to provide client auditing, and a Central Management Server (NodeVenus.CMS) with a service to provide the CMS services. · The host named HostBeta has Information platform services installed and is configured to have three nodes: · NodeMars: contains a Central Management Server (NodeMars).



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CMS) with a service to provide the CMS services.

NodeJupiter: contains a Interactive Analysis Processing Server (NodeJupiter.InteractiveAnalysis) with a service to provide Interactive Analysis reporting, and an Event Server (NodeJupiter.EventServer) to provide report monitoring of files. 14 2010-12-02 Getting Started · NodeSaturn: contains an Adaptive Processing Server (NodeSaturn.APS) with a service to provide client auditing.

Information platform services uses the terms server and service to refer to the two types of software running on an Information platform services machine. A service is a server subsystem that performs a specific function. The service runs within the memory space of its server under the process id of the parent container (server). For example, the SAP BusinessObjects Interactive Analysis Scheduling and Publishing Service is a subsystem that runs within the Adaptive Job Server. The term server is used to describe an operating system level process (on some systems, this is referred to as a daemon) hosting one or more services.

For example, the Central Management Server (CMS) and Adaptive Processing Server are servers. A server runs under a specific operating system account and has its own PID. A node is a collection of Information platform services servers running on the same host. One or more nodes can be on a single host. Information platform services can be installed on a single machine, spread across different machines on an intranet, or separated over a wide area network (WAN). 1.1.2 Key administrative tools 1.1.2.

1 Central Management Console (CMC) The Central Management Console (CMC) is a web-based tool to perform administrative tasks, including user, content, and server management. It also allows you to publish, organize, and configure security settings. Because the CMC is a web-based application, you can perform all of these administrative tasks through a web browser on any machine that can connect to the server. All users can log on to the CMC to change their user preference settings. Only members of the Administrators group can change management settings, unless explicitly granted the rights to do so. Roles can also be assigned to the CMC to grant some users privileges to perform minor administrative tasks 15 2010-12-02 Getting Started 1.1.2.2

Central Configuration Manager (CCM) The Central Configuration Manager (CCM) is a server troubleshooting and node configuration tool provided in two forms. In a Microsoft Windows environment, the CCM allows you to manage local and remote servers through its graphical user interface (GUI) or command line.

The CCM allows you to create and configure Server Intelligence Agent (SIA) nodes and start or stop your web application server. On Windows, it also allows you to configure network parameters, such as Secure Socket Layer (SSL) encryption. These parameters apply to all servers within a node. Note: Most server management tasks are now handled through the CMC, not through the CCM. The CCM is now used for troubleshooting and node configuration.

1.1.2.3 Upgrade management tool Upgrade management tool (formerly Import Wizard) is installed as a part of Information platform services, and guides administrators through the process of importing users, groups, and folders from previous versions of Information platform services. It also allows you to import and upgrade objects, events, server groups, repository objects, and calendars.

For information on upgrading from a previous version of Information platform services, see the Information platform services Upgrade Guide. 1.1.3 Key tasks Depending on your situation, you may want to focus on specific sections of this help, and there may be other resources available for you. For each of the following situations, there is a list of suggested tasks and reading topics. Related Topics · Planning or performing your first deployment · Configuring your deployment · Improving your system's performance · Central Management Console (CMC) 16 2010-12-02 Getting Started 1.1.3.1 Planning or performing your first deployment If you are planning or performing your first deployment of Information platform services, it is recommended that you perform the following tasks and read the corresponding sections: · · · · · To get familiar with the Information platform services components, read "Architecture overview". "Communication between Information platform services components".

"Security overview". If you plan to use third-party authentication, read "Authentication". For more information about installing this product, see the Information platform services Installation Guide. After you install, read "Server Administration". Related Topics · Architecture overview · Security overview · Server Administration 1.1.3.2 Configuring your deployment If you have just completed your installation of Information platform services and need to perform initial configuration tasks, such as firewall configuration and user management, it is recommended that you read the following sections. Related Topics · Server Administration · Security overview · About Monitoring 1.1.

3.3 Improving your system's performance 17 2010-12-02 Getting Started If you want to assess your deployment's efficiency and fine-tune it in order to maximize resources, it is recommended that you read the following sections: · · If you want to monitor your existing system, read "Monitoring". For daily maintenance tasks and procedures for working with servers in the CMC, see "Server Maintenance". Related Topics · About Monitoring · Server Administration 1.1.

3.4 Working with objects in the CMC If you are working with objects in the CMC, read the following sections: · · · For information about setting up users and groups in the CMC, see "Account Management Overview". To set security on objects, see "How rights work in Information platform services". For general information about working with objects, see the Information platform services CMC Help. Related Topics · Account management overview · How rights work in Information platform services 1.

2 About this help This help provides you with information and procedures for deploying and configuring your Information platform services system. Procedures are provided for common tasks. Conceptual information and technical details are provided for all advanced topics. For daily maintenance tasks and procedures for working with the CMC, see the Information platform services Administrator's Guide. For information about installing this product, see the Information platform services Installation Guide. 18 2010-12-02 Getting Started 1.2.1 Who should use this help? This help covers deployment and configuration tasks.



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We recommend consulting this guide if you are: . . . planning your first deployment configuring your first deployment making significant changes to the architecture of an existing deployment improving your system's performance. This help is intended for system administrators who are responsible for configuring, managing, and maintaining an Information platform services installation.

Familiarity with your operating system and your network environment is beneficial, as is a general understanding of web application server management and scripting technologies. However, to assist all levels of administrative experience, this help aims to provide sufficient background and conceptual information to clarify all administrative tasks and features. 1.2.2 About Information platform services Information platform services is a flexible, scalable, and reliable solution for delivering powerful, interactive reports to end users via any web application--intranet, extranet, Internet or corporate portal. Whether it is used for distributing weekly sales reports, providing customers with personalized service offerings, or integrating critical information into corporate portals, Information platform services delivers tangible benefits that extend across and beyond the organization. As an integrated suite for reporting, analysis, and information delivery, Information platform services provides a solution for increasing end-user productivity and reducing administrative efforts. 1.2.3

Variables The following variables are used throughout this guide.

19 2010-12-02 Getting Started Variable Description <INSTALLDIR> The directory where Information platform services is installed. On a Windows machine, the default directory is C:\Program Files (x86)\SAP BusinessObjects\ <PLAT FORM64DIR> The name of your UNIX operating system. Acceptable values are: . aix\_rs6000\_64 . linux\_x64 . solaris\_sparcv9 . hpux\_ia64 The directory where scripts for administering Information platform services are located. On a

Windows machine, the directory is <INSTALLDIR>\win64\_x64\scripts.

On Unix machines, the directory is <INSTALLDIR>/<PLAT FORM64DIR>/scripts. <SCRIPTDIR> 20 2010-12-02 Architecture Architecture 2.1 Architecture overview This section outlines the overall platform architecture, system, and service components that make up the Information platform services Business Intelligence (BI) platform. The information helps administrators understand the system essentials and help to form a plan for the system deployment, management, and maintenance. Information platform services is designed for high performance across a broad spectrum of user and deployment scenarios. For example, specialized platform services handle either on-demand data access and report generation, or report scheduling based on times and events. You can offload processor intensive scheduling and processing by creating dedicated servers to host specific services. The architecture is designed to meet the needs of virtually any BI deployment, and is flexible enough to grow from several users with a single tool, to tens of thousands of users with multiple tools and interfaces. To provide flexibility, reliability, and scalability, Information platform services components can be installed on one or across many machines. You can even install two different versions of Information platform services simultaneously on the same computer, although this configuration is only recommended as part of the upgrade process or testing purposes. Server processes can be "vertically scaled" (where one computer runs several, or all, server-side processes) to reduce cost, or "horizontally scaled" (where server processes are distributed between two or more networked machines) to improve performance. It is also possible to run multiple, redundant, versions of the same server process on more than one machine, so that processing can continue if the primary process encounters a problem. 2.1.1 System overview Information platform services is a Business Intelligence (BI) platform that provides enterprise level analysis and reporting tools.

Data can be analyzed from any of a large number of supported database systems (including text or multi-dimensional OLAP systems) and BI reports can be published in many different formats to many different publishing systems. The following diagram illustrates how Information platform services fits in with your organization's infrastructure. 21 2010-12-02 Architecture Information platform services reports from a read-only connection to your organization's databases, and uses its own databases for storing its configuration, auditing, and other operational information. The BI reports created by the system can be sent to a variety of destinations, including file systems, and email, or accessed through web sites or portals. Information platform services is a self-contained system that can exist on a single machine (for example, as a small development or pre-production test environment) or can be scaled up into a cluster of many machines that run different components (for example, as a large-scale production environment). 2.1.2 Databases Information platform services uses several different databases. · Reporting database This refers to your organization's information. It is the source information analyzed and reported on by Information platform services.

Most commonly, the information is stored within a relational database, but it can also be contained within text files, Microsoft Office documents, or OLAP systems. · CMS system database The CMS system database is used to store Information platform services information, such as user, server, folder, document, configuration, authorization, and authentication details. It is maintained by the Central Management Server (CMS), and is sometimes referred to as the system repository. · Auditing Data Store 22 2010-12-02 Architecture The Auditing Data Store (ADS) is used to store information on trackable events that occur in Information platform services. This information can be used to monitor the usage of system components, user activity, or other aspects of day-to-day operation.

· Lifecycle Management database The Lifecycle Management database tracks configuration and version information related to an Information platform services installation, as well as updates. · Monitoring database Monitoring uses the Java Derby database to store system configuration and component information for SAP supportability. If you do not have a database server in place for use with the CMS system and Auditing Data Store databases, the Information platform services installation program can install and configure one for you. It is recommended that you evaluate your requirements against information from your database server vendor to determine which supported database would best suit your organization's requirements.



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1.3 Servers Information platform services consists of collections of servers running on one or more hosts. Small installations (such as test or development systems) can use a single host for a web application server, database server, and all Information platform services servers. Medium and large installations can have servers running on multiple hosts. For example, a web application server host can be used in combination with an Information platform services server host. This frees up resources on the Information platform services server host, allowing it to process more information than if it also hosted the web application server. Large installations can have several Information platform services server hosts working together in a cluster. For example, if an organization has a large number of SAP Crystal Reports users, Crystal Reports processing servers can be created on multiple Information platform services server hosts to ensure that there are plenty of resources available to process requests from clients. The advantages of having multiple servers include:

- Improved performance Multiple Information platform services server hosts can process a queue of reporting information faster than a single Information platform services server host.
- Load balancing If a server is experiencing a higher load than the other servers in a cluster, the CMS automatically sends new work to a server with better resources.

- Improved availability If a server encounters an unexpected condition, the CMS automatically re-routes work to different servers until the condition is corrected.

23 2010-12-02 Architecture 2.1.4 Web application servers A web application server acts as the translation layer between a web browser or rich application, and Information platform services. Web application servers running on Windows, Unix, and Linux are supported. The following web application servers are supported: · JBoss · Oracle Application Server · SAP NetWeaver AS Java · Tomcat · WebLogic · WebSphere For a detailed list of supported web application servers, consult the Supported Platforms Guide available at: <http://service.sap.com/bosap-support>. If you do not have a web application server in place for use with Information platform services, the installation program can install and configure a Tomcat 6 web application server for you. It is recommended that you evaluate your requirements against information from your web application server vendor to determine which supported web application server would best suit your organization's requirements.

Note: When configuring a production environment, it is recommended that the web application server is hosted on a separate system. Running Information platform services and a web application server on the same host in a production environment may decrease performance. 2.1.4.

1 Web Application Container Service (WACS) A web application server is required to host Information platform services web applications. If you are an advanced Java web application server administrator with advanced administration needs, use a supported Java web application server to host Information platform services web applications. If you will be using a supported Windows operating system to host Information platform services, and prefer a simple web application server installation process, or you do not have the resources to administer a Java web application server, you can install the Web Application Container Service (WACS) when installing Information platform services. WACS is an Information platform services server that allows Information platform services web applications, such as the Central Management Console (CMC) and Web Services, to run without the need for a previously installed Java web application server. 24 2010-12-02 Architecture Using WACS to provides a number of advantages:

- WACS requires a minimum effort to install, maintain, and configure.

- It is installed and configured by the Information platform services installation program, and no additional steps are required to start using it.
- WACS removes the need for Java application server administration and maintenance skills.
- WACS provides an administrative interface that is consistent with other Information platform services servers.
- Like other Information platform services servers, WACS can be installed on a dedicated host. Note: There are some limitations to using WACS instead of a dedicated Java web applications server:
- WACS is only available on supported Windows operating systems.
- Custom web applications cannot be deployed to WACS, as it only supports the web applications installed with Information platform services.
- WACS cannot be used with an Apache load balancer. It is possible to use a dedicated web application server in addition to WACS. This allows your dedicated web application server to host custom web applications, while the CMC and other Information platform services web applications are hosted by WACS. 2.

1.5 Language support Information platform services products are translated into many different languages and supports data in an even broader selection of languages. Product interfaces are available in the following languages: · Czech · Simplified Chinese · Traditional Chinese · Danish · Dutch · English · Finnish · French · German · Italian · Japanese · Korean · Norwegian Bokmal · Polish · Portuguese · Russian 25 2010-12-02 Architecture · · Spanish Swedish Thai In addition to supporting data in any of the languages available in the interface, the following character sets are also supported: · Greek · Malaysian · Hebrew ·

- Arabic · Romanian · Vietnamese · Hungarian · Turkish · Hindi

2.1.6 Authentication and single sign-on System security is managed by the Central Management Server (CMS), security plug-ins, and third-party authentication tools, such as SiteMinder or Kerberos. These components authenticate users and authorize user access for Information platform services, its folders, and other objects. The following user authentication single sign-on security plug-ins are available:

- Enterprise (default), including Trusted Authentication support for third-party authentication.
- LDAP
- Windows Active Directory (AD) When using an Enterprise Resource Planning (ERP) system, single sign-on is used to authenticate user access to the ERP system so that reports can be against ERP data. The following user authentication single sign-on for ERP systems are supported:
- SAP ERP and Business Warehouse (BW)
- Oracle E-Business Suite (EBS)
- Siebel Enterprise
- JD Edwards Enterprise One
- PeopleSoft Enterprise 2.1.

6.1 Security plug-ins 26 2010-12-02 Architecture Security plug-ins automate account creation and management by allowing you to map user accounts and groups from third-party systems into Information platform services.



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You can map third-party user accounts or groups to existing Enterprise user accounts or groups, or you can create new Enterprise user accounts or groups that correspond to each mapped entry in the external system. The security plug-ins dynamically maintain third-party user and group listings. So, once you map a Lightweight Directory Access Protocol (LDAP) or Windows Active Directory (AD) group to Information platform services, all users who belong to that group can log into Information platform services.

Subsequent changes to the third-party group memberships are automatically propagated. Information platform services supports the following security plug-ins: · Enterprise security plug-in The Central Management Server (CMS) handles security information, such as user accounts, group memberships, and object rights that define user and group privileges. This is known as Enterprise authentication. Enterprise authentication is always enabled; it cannot be disabled. Use the system default Enterprise Authentication if you prefer to create distinct accounts and groups for use with Information platform services, or if you have not already set up a hierarchy of users and groups on an LDAP or Windows AD server.

Trusted Authentication is a component of Enterprise authentication that integrates with third-party single sign-on solutions, including Java Authentication and Authorization Service (JAAS). Applications that have established trust with the Central Management Server can use Trusted Authentication to allow users to log on without providing their passwords. · LDAP security plug-in Windows AD Note: Although a user can configure Windows AD authentication for Information platform services and custom applications through the CMC, the CMC does not support Windows AD authentication with NTLM. The only methods of authentication that the CMC support are Windows AD with Kerberos, LDAP, Enterprise, and Trusted Authentication. 2.1.6.2 Enterprise Resource Planning (ERP) integration An Enterprise Resource Planning (ERP) application supports the essential functions of an organization's processes by collecting real-time information related to day-to-day operations. SAP BusinessObjects Enterprise supports single sign-on and reporting from the following ERP systems: · SAP ERP and Business Warehouse (BW) Note: SAP GUI must be installed before using OLAP Data Access (ODA), SAP BusinessObjects Advanced Analysis (formerly Voyager), or BW connections. 27 2010-12-02 Architecture · · · Siebel Enterprise Oracle E-Business Suite JD Edwards EnterpriseOne PeopleSoft Enterprise Note: · · SAP ERP and BW support is installed by default.

Use the Custom / Expand installation option to deselect SAP integration support if you do not want support for SAP ERP or BW. Support for Siebel Enterprise, Oracle E-Business Suite, JD Edwards EnterpriseOne, or PeopleSoft is not installed by default. Use the "Custom / Expand" installation option to select and install integration for non-SAP ERP systems. For detailed information on the specific versions supported by SAP BusinessObjects Enterprise, consult the Supported Platforms Guide, available at [service.sap.com/bosap-support](http://service.sap.com/bosap-support). To configure ERP integration, see the SAP BusinessObjects Enterprise Administrator Guide. 2.1.7 SAP integration Information platform services integrates with your existing SAP infrastructure with the following SAP tools: · SAP System Landscape Directory (SLD) The system landscape directory of SAP NetWeaver is the central source of system landscape information relevant for the management of your software life-cycle.

By providing a directory comprising information about all installable software available from SAP and automatically updated data about systems already installed in a landscape, you get the foundation for tool support to plan software life-cycle tasks in your system landscape. The Information platform services installation program registers the vendor and product names and versions with the SLD, as well as server and front-end component names, versions, and location. · SAP Solution Manager The SAP Solution Manager is a platform that provides the integrated content, tools, and methodologies to implement, support, operate and monitor an organization's SAP and non-SAP solutions. Non-SAP software with an SAP-certified integration is entered into a central repository and transferred automatically to your SAP System Landscape Directories (SLD). SAP customers can then easily identify which version of third-party product integration has been certified by SAP within their SAP system environment.

This service provides additional awareness for third-party products besides our online catalogs for third-party products. SAP Solution Manager is available to SAP customers at no extra charge, and includes direct access to SAP support and SAP product upgrade path information. For more information on SLD, see 28 2010-12-02 Architecture "Registration of Information platform services in the System Landscape" in the Information platform services Administrator

Guide. · CTS Transport (CTS+) The Change and Transport System (CTS) helps you to organize development projects in ABAP Workbench and in Customizing, and then transport the changes between the SAP systems in your system landscape. As well as ABAP objects, you can also transport Java objects (J2EE, JEE) and SAP-specific non-ABAP technologies (such as Web Dynpro Java or SAP NetWeaver Portal) in your landscape.

· Monitoring with CA Wily Introscope CA Wily Introscope is a web application management product that delivers the ability to monitor and diagnose performance problems that may occur within Java-based SAP modules in production, including visibility into custom Java applications and connections to back-end systems. It allows you to isolate performance bottlenecks in NetWeaver modules including individual Servlets, JSPs, EJBs, JCO's, Classes, Methods and more. It offers real-time, low-overhead monitoring, end-to-end transaction visibility, historical data for analysis or capacity planning, customizable dashboards, automated threshold alarms, and an open architecture to extend monitoring beyond NetWeaver environments. 2.1.8 Lifecycle management (LCM) Lifecycle management (LCM) refers to a set of processes involved in managing an installation's product information. It establishes procedures for governing the installation of Information platform services to development, test, production, or maintenance environments. Information platform services Lifecycle Manager is a web-based tool that enables you to move BI objects from one system to another system, without affecting the dependencies of those objects. It also enables you to manage different versions, manage dependencies, or roll back a promoted object to its previous state. The LCM tool is a plug-in for Information platform services.



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You can promote a BI object from one system to another system only if the same version of the application is installed on both the source and destination systems. For more information, see the Information platform services Lifecycle management console User's Guide. 2.1.9 Integrated version control 29 2010-12-02 Architecture The files that make up SAP BusinessObjects Enterprise on a server system are now kept under version control. The installation program will install and configure the Subversion version control system, or you can enter details to use an existing Subversion or ClearCase version control system. A version control system makes it possible to keep and restore different revisions of configuration and other files, which means it is always possible to revert the system to a known state from any time in the past. 2.1.10 Permanent data The term "permanent data" refers to any piece of information considered important enough to be migrated during a system upgrade.

For example, the Central Management Server (CMS) stores configuration information in the CMS database rather than the Windows registry or a configuration file. All Information platform services products store permanent data in the CMS system database. This allows data and configuration information to be easily migrated to a new version when you upgrade. 2.1.

11 Upgrade path It's possible to upgrade from a previous release of Information platform services, but you must first install Information platform services 4.0, then migrate the settings and data from your existing system with the Upgrade management tool. For information on how to upgrade from a previous version, see the Information platform services Upgrade Guide. 2.2 Conceptual tiers Information platform services can be thought of as a series of conceptual tiers: 30 2010-12-02 Architecture · Web tier The Web Tier contains web applications deployed to a Java web application server.

Web applications provide Information platform services functionality to end users through a web browser. Examples of web applications include the Central Management Console (CMC) administrative web interface and BI launch pad. The web tier also contains Web Services. Web Services provides Information platform services functionality to software tools via the web application server, such session authentication, user privilege management, scheduling, search, administration, reporting, and query management. · Management tier The management tier coordinates and controls all of the components that make up Information platform services. It is comprised of the Central Management Server (CMS). The CMS provides maintains security and configuration information, sends service requests to servers, manages auditing, and maintains the CMS system database. · Processing tier The processing tier analyzes data and produces reports. This is the only tier that accesses the databases that contain report data. · Storage tier The storage tier is responsible for handling files, such as documents and reports.

The Input File Repository Server manages files that contain information to be used in reports. The Output File Repository Server manages reports created by the system. The storage tier also handles report caching to save system resources when users access reports. 2.3 Services and servers The following diagram shows a hypothetical installation of Information platform services. 31 2010-12-02 Architecture Note: The nodes, servers, and services shown are for illustrative purposes only. The number of hosts, nodes, servers and services--as well as the type of servers, and services--will vary in real-world installations.

Two hosts form the cluster named ProductionBISystem, with two hosts: · The host named HostAlpha has Information platform services installed and is configured to have two nodes: · NodeMercury: contains an Adaptive Job Server (NodeMercury.AJS) with services to schedule and publish reports, an Input File Repository Server (NodeMercury.IFRS) with a service to store input reports, and an Output File Repository Server (NodeMercury.

OFRS) with a service to store report output. NodeVenus: contains an Adaptive Processing Server (NodeVenus.APS) with services to provide publishing, monitoring, and translation features, an Adaptive Processing Server (NodeVenus.APS2) with a service to provide client auditing, and a Central Management Server (NodeVenus.CMS) with a service to provide the CMS services.

· The host named HostBeta has Information platform services installed and is configured to have three nodes: 32 2010-12-02 Architecture · · NodeMars: contains a Central Management Server (NodeMars.CMS) with a service to provide the CMS services. NodeJupiter: contains a Interactive Analysis Processing Server (NodeJupiter.InteractiveAnalysis) with a service to provide Interactive Analysis reporting, and an Event Server (NodeJupiter.EventServer) to provide report monitoring of files.

NodeSaturn: contains an Adaptive Processing Server (NodeSaturn.APS) with a service to provide client auditing. Information platform services uses the terms server and service to refer to the two types of software running on an Information platform services machine. A service is a server subsystem that performs a specific function. The service runs within the memory space of its server under the process id of the parent container (server). For example, the SAP BusinessObjects Interactive Analysis Scheduling and Publishing Service is a subsystem that runs within the Adaptive Job Server. The term server is used to describe an operating system level process (on some systems, this is referred to as a daemon) hosting one or more services. For example, the Central Management Server (CMS) and Adaptive Processing Server are servers. A server runs under a specific operating system account and has its own PID. A node is a collection of Information platform services servers running on the same host.

One or more nodes can be on a single host. Information platform services can be installed on a single machine, spread across different machines on an intranet, or separated over a wide area network (WAN). 2.3.1 Services The following table describes each of the services. Table 2-1: Services Service Service Category Server type Service description Authentication Update Scheduling Service Core Services Adaptive Job Server Provides synchronization of updates for thirdparty security plug-ins. Provides web applications for WACS: includes the Central Management Console (CMC). Web Application Service Core Services Web Application Container Server 33 2010-12-02 Architecture Service Service Category Server type Service description Central Management Service Core Services Central Management Server Provides server, user, session management, and security (authorization and authentication) management.



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Adaptive Processing Server Central Management Server (CMS) Maintains a database of information about your Information platform services system (in the CMS system database) and audited user actions (in the Auditing Data Store). All platform services are managed by the CMS. The CMS also controls access to the system files where documents are stored, and information on users, user groups, security levels (including authentication and authorization), and content. 38 2010-12-02 Architecture Server categories Description File Repository Server Responsible for the creation of file system objects, such as exported reports, and imported files in non-native formats. An Input FRS stores report and program objects that have been published to the system by administrators or end users. An Output FRS stores all of the report instances generated by the Job Server. 2.4 Client applications You can interact with Information platform services using two different types of desktop applications: · Desktop applications These applications must be installed on a supported Microsoft Windows operating system, and can process data and create reports locally. Desktop clients allow you to offload some BI report processing onto individual client computers. Most desktop applications directly access your organization's data through drivers installed on the desktop, and communicate with your Information platform services deployment through CORBA or encrypted CORBA SSL.

· Web applications These applications are hosted by a web application server and can be accessed with a supported web browser on Windows, Macintosh, Unix, and Linux operating systems. This allows you to provide business intelligence (BI) access to large groups of users, without the challenges of deploying desktop software products. Communication is conducted over HTTP, with or without SSL encryption (HTTPS). 2.4.1 Central Configuration Manager (CCM)

The Central Configuration Manager (CCM) is a server troubleshooting and node configuration tool provided in two forms. In a Microsoft Windows environment, the CCM allows you to manage local and remote servers through its graphical user interface (GUI) or command line. The CCM allows you to create and configure Server Intelligence Agent (SIA) nodes and start or stop your web application server. On Windows, it also allows you to configure network parameters, such as Secure Socket Layer (SSL) encryption. These parameters apply to all servers within a node.

39 2010-12-02 Architecture Note: Most server management tasks are now handled through the CMC, not through the CCM. The CCM is now used for troubleshooting and node configuration. 2.4.2 Upgrade management tool Upgrade management tool (formerly Import Wizard) is installed as a part of Information platform services, and guides administrators through the process of importing users, groups, and folders from previous versions of Information platform services.

It also allows you to import and upgrade objects, events, server groups, repository objects, and calendars. For information on upgrading from a previous version of Information platform services, see the Information platform services Upgrade Guide. 2.4.3 Web application clients Web application clients reside on a web application server, and are accessed on a client machine web browser.

Web applications are automatically deployed when you install Information platform services. Web applications are easy for users to access from a web browser, and communication can be secured with SSL encryption if you plan to allow users access from outside your organization's network. Java web applications can also be reconfigured or deployed after the initial installation by using the bundled WDeploy command-line tool, which allows you to deploy web applications to a web application server in two ways: 1. Standalone mode All web application resources are deployed to a web application server that serves both dynamic and static content. This arrangement is suitable for small installations. 2. Split mode The web application's static content (HTML, images, CSS) is deployed to a dedicated web server, while dynamic content (JSPs) is deployed to a web application server. This arrangement is suitable for larger installations that will benefit from the web application server being freed up from serving static web content. For more information about WDeploy, see the Information platform services Web Application Deployment Guide. 40 2010-12-02 Architecture 2.

4.3.1 Central Management Console (CMC) The Central Management Console (CMC) is a web-based tool to perform administrative tasks, including user, content, and server management. It also allows you to publish, organize, and configure security settings. Because the CMC is a web-based application, you can perform all of these administrative tasks through a web browser on any machine that can connect to the server. All users can log on to the CMC to change their user preference settings. Only members of the Administrators group can change management settings, unless explicitly granted the rights to do so. Roles can also be assigned to the CMC to grant some users privileges to perform minor administrative tasks 2.5 Information Workflows When tasks are performed in Information platform services, such as logging in, scheduling a report, or viewing a report, information flows through the system and the servers communicate with each other. The following section describes some of the process flows as they would happen in the Information platform services system.

#### 2.5.1 Authentication 2.5.1.

1 Logging on to Information platform services This workflow describes a user logging on to Information platform services from a web browser. 1. The browser sends the login request via the web server to the web application server. 2. The web application server determines that the request is a logon request. The web application server sends the username, password, and authentication type to the CMS for authentication. 3. The CMS validates the username and password against the appropriate database (in this case, Enterprise authentication is used, and user credentials are authenticated against the CMS system database). 4. Upon successful validation, the CMS creates a session for the user in memory. 41 2010-12-02 Architecture 5. The CMS sends a response to the web application server to let it know that the validation was successful. The web application server generates a logon token for the user session in memory. For the rest of this session, the web application server uses the logon token to validate the user against the CMS. 6.

The web application server generates an HTML page to send to the client. The web application server sends the response back to the user's machine where it is rendered in the web client. 2.5.1.2 SIA start-up A Server Intelligence Agent (SIA) can be configured to start automatically with the host operating system, or can be started manually with Central Configuration Manager (CCM).



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