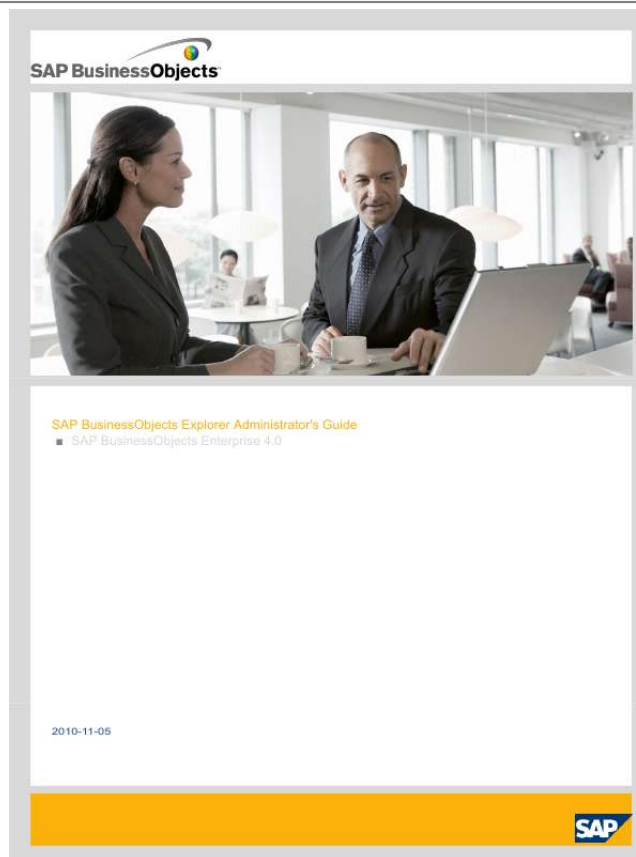




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Manual abstract:

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For example, after clicking Log On the Log On box has a graphical effect applied to it. The period of time in seconds before Explorer times out after an operation, such as logging into the system. The root location for the Explorer documentation. 30 100 use.

effects request.timeout help.url 12 2010-11-05 System Management Setting Description Example tutorial.url disable.password.

encryption The root location for the Explorer tutorial. Determines if password encryption is to be used. The OpenDocument URL of your BusinessObjects Enterprise deployment. It is used when a user exports Information Space data to a Web Intelligence query. Setting the value opens the query using OpenDocument. If you do not set the value, the query is not launched. opendoc.url http://server:port/OpenDocument/opendoc/openDocument.jsp Related Topics · Configuring SAP BusinessObjects Explorer for SAP authentication 3.2.

2 Explorer server settings You can configure the following settings: · The unit to use for validating bookmarks; possible values include: DAYS, MINUTES, HOURS, or WEEKS. · The period of time (based on the unit) that a bookmark is stored. For example 365. The period of time in milliseconds before a session object handled by an underlying watchdog is deleted. The delay in milliseconds between each update of when slave servers inform the master server about their workload to balance the load. You can also configure the indexing path in order of priority using: · A properties file for all servers on a single node. · The BusinessObjects Enterprise CMC server properties for a single indexing server on a single node. Modifications you make to settings are implemented in the following order of priority: · configurations made from the command line for each server within the CMC for a single server on a single node · configurations made directly in a properties file for all servers on a single node · configurations made via the CMC application properties for all nodes within your deployment cluster For example, if you configure the settings using a properties file on a node, the CCM settings are ignored for that node. 13 2010-11-05 System Management 3.2.

2.1 Information Space indexes path You can specify where you want the indexes to be stored. You can either set the indexing path from the BusinessObjects Enterprise CMC or create a properties file and specify the index path there. Related Topics · Configuring the index path using the CMC 3.2.

2.1.1 Configuring the index path using the CMC To change the indexing path for a single indexing server, edit the server properties within the CMC. The indexing path is dependent on your installation path and is defaulted to: · %DefaultDataDir%/Explorer14.0/index 1.

Logon to the CMC. 2. Navigate to the Explorer Indexing server you want to configure from Servers. 3. Right-click the server and click Properties. 4. From Index Files Directory, enter a path. 5. Click Save. Note: If you copy existing indexes to the new location, the Explorer Indexing Server has to be stopped.

6. Restart the server. 3.2.2.1.2 Configuring the index path using a properties file You can change the indexing path for all servers on a single node, by creating or editing a properties file. 1. Create or edit a properties file named explorer.service. properties located under: · C:\Program Files (x86)\SAP BusinessObjects\Explorer14.0\ Add this entry: · index.path=C:/Index 2. Amend the value accordingly and save the file. 3.

Restart the servers. Note: If you copy existing indexes, the Explorer Indexing Server has to be stopped. 14 2010-11-05 System Management 3.2.2. 2 Session timeout period The Explorer Master Server ensures that useless resources are released efficiently. The session object is deleted when the associated peer stops operating or when the underlying network is lost. A watchdog service observes all network activity. The watchdog.timeout parameter specifies the duration of time (in milliseconds) a live session is considered active even if the watchdog detected no activity. Note: It is necessary for the watchdog.timeout parameter value to be superior to the timeout value set for the http session. If this is not the case, the Explorer session can expire even though the http session is still valid. To change the session timeout period, an administrator can either: · Change a setting for a single node. Create or edit a properties file named polestar.

service.properties located under: · C:\Program Files (x86)\SAP BusinessObjects\Explorer14.0\ Add this entry: watchdog.timeout=30, amend the value accordingly and restart the servers. · Add the following to the command line to configure a single server: -watchdog.timeout 30 For example: -loggingPath "C:/Program Files (x86)/SAP BusinessObjects/Explorer14.0/Logging/" -serverkind polestarMaster -trace true -watchdog.timeout 30 Note: The default value of watchdog.timeout is 300 000 milliseconds (5 minutes). Altering the setting (especially if the specified value is too low) can have an impact on stability and even delete a valid session.

This value must be smaller than the value of workload.update.delay. 3.2.

2.3 Request timeout limit Timeouts may occur while using large datasets. Workaround: It is necessary to change the default request.timeout setting (in seconds) located within: 15 2010-11-05 System Management C:\Program Files (x86)\SAP BusinessObjects\Tomcat\webapps\explorer\WEBINF\classes\default.settings.

properties To do this: 1. Open for edit the default.setting.properties file. 2. Locate the request.timeout setting. 3. Change the setting accordingly. Caution: Defining a large value affects the waiting time for users.

Option Description -1 360 4. Save the file. 5. Restart the Explorer servers. The timeout is changed according to the new value. Deactivate timeout limit Maximum value for timeout. 3.2.2.4 Bookmark validity The bookmark validity period is the duration at which bookmarks of the exploration views (or filtered versions of Information Spaces) created by end users remain saved on the Explorer Application Server.

Once this duration expires, the bookmark can no longer be opened. There are three methods to configure the validation duration for bookmarks. See Related Topics, below, for details. Note: Administrators are advised to communicate the duration of bookmarks to Explorer end users, so that users know how long any bookmarks they save will remain valid. Related Topics · Configuring the bookmark validity period via the CMC · Configuring the bookmark validity period via the server command line within the CMC · Configuring the bookmark validity period via a properties file 3.

2.2.4.1 Configuring the bookmark validity period via the CMC To change the bookmark validation period from the BusinessObjects Enterprise CMC, amend the value within the CMC administration page. In this case, the value is taken into account by all slave nodes.



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1. Logon to the BusinessObjects Enterprise CMC. 16 2010-11-05 System Management 2. Navigate to Manage > Applications. 3. Right-click Explorer and click Properties. 4. Change the Bookmark validity values and click Save. 5. Restart the Explorer servers.

3.2.2.4.2 Configuring the bookmark validity period via the server command line within the CMC To change the Explorer validity period for a single server, edit the server properties within the BusinessObjects Enterprise CMC. 1. Logon to the BusinessObjects Enterprise CMC. 2. Navigate to the Explorer server you want to configure via Servers. 3.

Right-click the server and click Properties. 4. Within Command Line Parameters, add the following: -bookmark.validity.time 365 -bookmark.validity.unit DAYS For example: -loggingPath "C:/Program Files (x86)/SAP BusinessObjects/Explorer14.0/Log ging/" -serverkind polestarIndexing -trace true -bookmark.validity.time 365 -bookmark.

validity.unit DAYS 5. Click Save. 6. Restart the Explorer servers. 3.2.2.4.3 Configuring the bookmark validity period via a properties file You can change the Explorer bookmark validity for all servers on a single node, by creating or editing a properties files.

1. Create or edit a properties file named explorer.service.properties located under: · C:\Program Files (x86)\SAP BusinessObjects\Explorer14.0\ 2. Add the following entries. bookmark.validity.time=365 bookmark.validity.unit=DAYS 3. Amend the value accordingly and save the file. 4. Restart the servers. 3.

2.2.5 Increasing virtual memory on the Explorer servers 17 2010-11-05 System Management The amount of virtual memory required by the Explorer servers depends on the size of the Information Spaces being explored and indexed across your deployment. You can increase the amount of virtual memory available on each server by changing the JVM heap size value as necessary: · If a large number of end users need to explore large Information Spaces, it is recommended you increase the JVM heap size value on your Exploration Server(s). · If you have a lot of users indexing, it is also recommended you increase the JVM heap size value on your Explorer Indexing Servers.

By default, the JVM heap size value is 1 GB. In most cases, this is sufficient for the Master server(s) and Search Server(s). The JVM heap size has an influence on the following: · Memory garbage collection For example, having a large heap size for the Indexing Server(s) reduces the rate of garbage collection of memory during indexing, thus improving performance. If the heap size is small, scheduling spends more time to free (and retrieve) memory than executing the required task. A heap size of 1.6 GB decreases the rate of garbage collecting in most cases. · Swapping memory to hard disk The JVM heap size value you define should always be lower than the amount of physical memory available on the server. Having a low amount of physical memory and configuring large values for the heap size of each server results in the swapping of memory to the hard disk. For example, if there is 2 GB of RAM, it is not efficient to provide a heap size of 1024 MB for each Explorer server. SAP BusinessObjects Explorer functions correctly but memory swapping occurs, therefore having an impact on performance.

3.2.2.5.1 Configuring the JVM heap size value Verify the memory limit you can configure for a server and the JVM. The heap size is dependent on the hardware and software used. For example, a Windows 32-Bit or a Windows 64-Bit operating system, the version of the JVM and the amount of physical memory installed. Refer to the BusinessObjects Enterprise Administrator's Guide 4.0 available at: <http://help.sap.com>

for information on configuring memory size. 3.2.2.6 Concurrent Excel file uploads As an administrator of Explorer you can configure how many concurrent upload operations of Excel files can be processed.

By default the value is 30 concurrent Excel upload operations. 3.2.2.6.

1 Configuring the number of possible concurrent Excel uploads As an administrator of the Explorer you can configure how many concurrent upload operations of Excel files can be processed. By default the value is 30 concurrent Excel upload operations. 18 2010-11-05 System Management 1. Log into the SAP BusinessObjects Enterprise CMC. 2. Navigate to: ApplicationsExplorerPropertiesAdvanced configuration 3. Enter the following parameter and specify the value of your choice. com.businessobjects.datadiscovery.

max_nb_parallel_indexing_tasks For example: com.businessobjects.datadiscovery.max_nb_parallel_indexing_tasks=50 The parameter change is taken into account immediately. 3.2.3 Standardizing font usage across your deployment The fonts used to display character strings in Information Spaces are provided by the font libraries on the clients and servers across your SAP BusinessObjects Explorer deployment: · The Exploration servers supply the fonts used to display the character strings on charts. · The client machines logged into SAP BusinessObjects Explorer supply the fonts used to display the character strings in the rest of the application GUI. If the fonts installed on the Exploration servers do not match the fonts on the clients, the character strings in the charts and the rest of the application GUI display with different fonts. 3.

2.3.1 Ensuring font compatibility across clients and servers The Arial Unicode J font is matched by the Arial Unicode MS font on most Microsoft Windows client machines. This provides a standard display for character strings throughout the application GUI. You can ensure font compatibility across your deployment as follows: 1.

Verify that a font compatible with the Arial Unicode J font is installed on your client machines, and if you implement a distributed deployment architecture, on each Explorer server. Note: On most Microsoft Windows client machines, the Arial Unicode MS font is compatible with Arial Unicode J. 2. On each client machine or Explorer server that does not have a compatible font, install Arial Unicode J. Note: The Arial Unicode J font is available in the following directory of the SAP BusinessObjects Explorer server once you have installed the application: <BusinessObjects_Explorer_InstallDir>/Explorer14.0/jre/lib/fonts 19 2010-11-05 System Management 3.2.3.2 Installing custom fonts On some language versions fonts may appear too large, resulting in chart areas being hidden by axis labels or facet values being truncated, and some language-specific special characters may be missing. These types of font inconsistencies are more common on UNIX platforms than Windows. To solve these issues, you can install fonts of their choice on the servers and/or clients. Once the fonts are installed, you need to modify two files so that these fonts are used in both the charts and the rest of the application GUI. 1. Stop the Exploration servers. 2.

Install and distribute the font of your choice to the Exploration servers and clients. The location on the server is:
<BusinessObjects_Explorer_InstallDir>/Explorer14.



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0/jre/lib/fonts. 3.2.3.3 Configuring custom fonts in charts For SAP BusinessObjects Explorer to use custom fonts in charts, the fonts must first be installed on the servers and client machines. 1. Open the <BusinessObjects_Explorer_InstallDir>/Explorer14.0/chart-template.

sample file for edit. 2. Search for the following string: [Arial Unicode J, Arial Unicode MS, Arial] 3. Replace the three font names with the names of your installed fonts, as follows: [FontFaceName 1;FontFaceName 2;FontFaceName 3] Information: The fonts are specified in order of preference. If the first font in the list is not available, the second font is used; if the second font is not available, the third font is used, and so on.

4. Optional: to specify the font size, search for the following string: [10.0]; 5. Replace the "10.0" font size with the size of your choice, for example you would specify a choice of two size 14 Japanese fonts as follows: <GlobalValue> <DefaultValues> <DefaultValue type="4" value="jiskan24.

pcf.z;k14.pcf.Z]; [14.0];[0];[0;0;0;0];[" /> </DefaultValues> </GlobalValue> Note: If a different font size is specified for a particular chart zone, such as the legend, then the global font size is overridden in that particular chart zone. 20 2010-11-05 System Management 6. Rename the file chart-template.xml and save it to <BusinessObjects_Explorer_InstallDir>/Explorer14.0/. 3.

2.3.4 Configuring custom fonts for the interface outside of charts For SAP BusinessObjects Explorer to use custom fonts, the fonts must first be installed on the servers and client machines. You can define a specific custom font or font size globally for all languages, and also for specific languages, to override the global setting. 1. Open the <install_dir>\webapps\explorer\schemachinese.css.example\file for edit. 2. Replace the default font name and size with the font and size of your choice: global { font-family: Arial Unicode J, Arial Unicode MS, Arial, Sans-serif; font-size: 13pt; } Information: The fonts are specified in order of preference.

If the first font in the list is not available, the second font is used; if the second font is not available, the third font is used, and so on. Note: If a different font size is specified for a particular interface label, such as ToolTips, then the global font size is overridden in that particular type of label. 3. Where you save the file depends on whether you want to apply these settings globally, to all languages, or just to a specific language: · To apply the settings to all languages, rename the file as global.css and save it to: <install_dir>\webapps\explorer\schemes\global\global.

css\ · to apply the settings to a specific language, rename the file as <language>.css and save it to a sub-folder named with the language code for that language as follows: <install_dir>\webapps\explorer\schemes\global\<language>\<language>.css For example, for Chinese, you would save the file as follows: <install_dir>\webapps\explorer\schemes\global\zh_CNchinese.css Note: As the css files control all of the display properties, it is recommended you only modify the values for these specified parameters.

4. Restart the Exploration servers. 21 2010-11-05 System Management 3.3 Backup and Restore 3.3.1 Backing up your Explorer System You can use the SAP BusinessObjects Enterprise Client Tools component the Import Wizard to backup Explorer objects (Information Spaces and user profiles), and then migrate those Information Spaces to a new BusinessObjects Enterprise CMS. You need to follow these steps: · Use the SAP BusinessObjects Enterprise Import Wizard to create a Business Intelligence Archive file (BIAR) that contains the Explorer objects on the CMS. Note: These objects include the user profiles and Information Spaces. · Import the BIAR file to the new CMS. For full details on how to use the Import Wizard, see: SAP BusinessObjects Enterprise XI 3.

1 Import Wizard Guide available at: http://help.sap.com/businessobject/product_guides/boexir31/en/xi31_bip_importwiz_en.pdf. 3.4 Load Balancing 3.4.1 Loadbalancing SAP BusinessObjects Explorer supports the clustering of your web application server. Hardware or software load balancers can be used as the entry-point for the web application servers to ensure that the processing is evenly distributed among servers. Information: For information about load balancing for SAP BusinessObjects Enterprise, refer to the SAP Product Availability Matrix (PAM) at: <http://service.sap.com/pam>. 22 2010-11-05 System Management 3.4.1.

1 Configuring the workload update setting for load balancing The workload is balanced by ensuring that servers with the least load have a higher job priority. Slave servers (within a cluster) ensure that the Explorer Master Server is periodically updated with their workload costs. The workload.update.delay parameter specifies the duration of time (in milliseconds) between updates to the Explorer Master Server.

To change the workload update delay period, an administrator can either: · Change a setting for a single node. Create or edit a properties file named explorer.service.properties located under: · <SAP BusinessObjects install_dir>\Explorer14.0 Add this entry: workload.update.delay=30, amend the value accordingly, and restart the servers. · Add the following to the command line to configure a single server: -workload.update.delay 30 For example: -loggingPath "C:/Program Files (x86)/SAP BusinessObjects/Explorer14.

0/Logging/" -serverkind polestarMaster -trace true -workload.update.delay 30 Note: The default value of workload.update.delay is 15 000 milliseconds. Altering the setting (especially if the specified value is too low) can have an impact on network traffic and performance. The value must be significantly smaller than the value of watchdog.timeout. 3.4.

2 Deploying Multiple Search Servers for Improved Information Space Exploration If the main activity of your user population is exploration, then it is recommended you deploy SAP BusinessObjects Explorer in a cluster with additional Explorer servers to ensure maximum performance when users navigate Information Spaces. Deploying a high-end machine to the cluster improves the performance and lowers any server constraints. 23 2010-11-05 System Management 3.4.3 Deploying Multiple Index Servers for Improved Indexing The indexing of Information Spaces is dependent on the following: · the number of Explorer servers deployed and how they are deployed · the hardware (CPU, memory, hard disk) used for Explorer servers · the Java Virtual Machine heap

If your aim is to improve indexing performance, it is recommended you put one installation of all four Explorer servers (Master, Indexing, Search, and Exploration) on the machine where SAP BusinessObjects Enterprise is installed, and additional Explorer Indexing Servers on separate machines, ensuring they are directed to the SAP BusinessObjects Enterprise installation.



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The indexing load is shared across all the indexing servers. The number of servers required is dependent on the number of users expected to use SAP BusinessObjects Explorer. For example, if you expect a high number of users indexing the large Information Spaces at the same time (an extreme scenario), then an additional server is required. Indexing many Information Spaces has an impact on explorers while they are exploring. It is recommended you schedule Information Spaces for indexing when there is less activity, such as over night.

3.5 Periodic Tasks 24 2010-11-05 System Management 3.5.1 Verifying Information Space indexes It is recommended that administrators verify that indexes are up to date at regular intervals. To do this: 1. @@@2. Select the "Manage Spaces" tab. 3. @@4. @@@@ Managing SAP BusinessObjects Explorer user rights.

@@@@@The user can manage Information Spaces and schedule. @@@@For full information on the user rights and security levels available at the SAP BusinessObjects Enterprise level, refer to the BusinessObjects Enterprise Administrator's Guide 4.0 available at: <http://help.sap.com>.

Related Topics · Explorer User Profiles 3.6.2 Authentication methods 29 2010-11-05 System Management SAP BusinessObjects Explorer supports the authentication methods supported by SAP BusinessObjects Enterprise: · Enterprise · Windows AD · LDAP · SAP Authentication To enable SAP R/3 authentication on your SAP BusinessObjects Explorer deployment, you need to perform some manual configuration procedures on the Explorer server. 3.6.

2.1 Configuring SAP BusinessObjects Explorer for SAP authentication This table provides the settings you need to configure in order to make SAP authentication available to SAP BusinessObjects Explorer users. Note: Before configuring SAP BusinessObjects Explorer for SAP authentication, refer to the BusinessObjects Enterprise Administrator's Guide 4.0 available at: <http://help.sap.com>.

com for further information on SAP authentication. The SAP authentication settings are stored within the Explorer settings properties file (default.settings.properties) in: <INSTALLDIR>/SAP BusinessObjects Enterprise XI 4.0/java/apps.

Table 3-5: SAP authentication web application settings Example Configuration (without SAP Authentication) Example Configuration (for SAP Authentication) Setting Description default.sapsystem.name show.sapsystem.name The name of the SAP system. Determines if the SAP system name is shown within the Log On page. Disables the SAP system name text box within the Log On page. You cannot change the textbox value. The SAP client ID. false SAP_ID true disable.

sapsystem.name true false default.sapclient.name 100 30 2010-11-05 System Management Setting Description Example Configuration (without SAP Authentication) Example Configuration (for SAP Authentication) show.sapclient.name Determines if the SAP client name is shown within the Log On page. Disables the SAP client name textbox within the Log On page. You cannot change the textbox value. The default log on authentication to use. The value is selected in the Authentication list of the Log On page.

The values that populate the Authentication list. false true disable.sapclient.name true false default.authentication.

method secEnterprise secSAPR3 authentications secEnterprise,secWinAD,secLDAP secEnterprise secWinAD, secLDAP,secSAPR3 Example: Properties file configured for SAP authentication default.sapsystem.name=SAP_ID show.sapsystem.name=true disable.

sapsystem.name=false default.sapclient.name=100 show.sapclient.name=true disable.sapclient.name=false default.authentication.method=secSAPR3 authentications=secEnterprise,secWinAD,secLDAP,secSAPR3 3.

6.3 Single Sign On You can configure SAP BusinessObjects Explorer for Single Sign On (SSO) for the following authentication methods: · Enterprise · Windows AD · LDAP The following files are used to configure SSO: · \$<ExplorerWebappRoot>/WEB-INF/classes/sso.properties contains all of the SSO options 31 2010-11-05 System Management · \$<ExplorerWebappRoot>/WEB-INF/web.xml contains a servlet filter that needs to be activated for Vintela authentication (for Windows AD) \$<ExplorerWebappRoot>/WEB-INF/default.settings.properties contains Explorer startup options that can be overridden by the SSO in the sso.properties file Related Topics · Activating Single Sign On · SSO for WinAD authentication using Vintela · SSO for LDAP authentication using SiteMinder · Enabling Trusted Authentication 3.6.3.1 Activating Single Sign On SSO must already be configured on BusinessObjects Enterprise before you configure SSO on SAP BusinessObjects Explorer.

Information: See the SAP BusinessObjects Enterprise Administrator's Guide for XI 4.0 at: <http://help.sap.com>. To activate SSO: 1.

Stop the Explorer Web Application Server. 2. Open the following file for edit: \$<ExplorerWebappRoot>/WEB-INF/classes/sso.properties 3. Set the following parameters to the values specified: Setting sso.

global.enabled sso.global.providers Values true <provider_name> Note: By default, the sso.properties file contains a set of ready-to-use values for the sso.global.providers file. The property must only be set once in the entire file. However, you can specify multiple providers using a comma-separated list of providers. 4.

Optional: three additional parameters can be set: 32 2010-11-05 System Management Setting sso.global.cms Description Values Controls the CMS used during the authentication. If no value is specified, the default.cms.name value set in the default.settings.properties is used. sso.global.authentication method used.

Possible values are: al.authentication · secEnterprise · secLDAP · secWinAD sso.global.authentication - Controls how the SSO system behaves if Two possible values: rorOnFailure no credential has been found. · false - the logon workflow continues normally as it would if SSO was not enabled · true - the logon dialog is not displayed Example: sso.

global.enabled=true sso.global.authentication= sso.global.

cms=hostname:port sso.global.providers=sso.vintela 3.6.3.2 SSO for WinAD authentication using Vintela The Vintela Authentication Services provider uses the credentials automatically passed from the browser to the web server to authenticate the user against an Active Directory server. Note: the authentication cannot be overridden and is implicitly set to secWinAD. It works as follows: · Retrieves the Windows credential from the current execution context using Vintela · Logs on to the server with authentication using these credentials To enable Vintela Authentication Services for SSO on WinAD, you need to make two additional modifications to \$<ExplorerWebappRoot>/WEB-INF/web.



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xml.

33 2010-11-05 System Management · uncomment the definition of the authFilter uncomment the mapping of the authFilter You also need to set the following parameters: Setting className Description Values com.businessobjects.datadiscovery.sso.vintela.VintelaSSOProvider controls the CMS used for authentication. It can be used to override the default CMS. <cms_name> cms Example: ## Vintela parameters (sso.vintela provider) # sso.vintela.className=com.businessobjects.datadiscovery.sso.vintela.

VintelaSSOProvider sso.vintela.cms= 3.6.3.

3 SSO for WinAD using Kerberos SAP BusinessObjects Explorer supports WinAD using Kerberos. You need to set up WinAD authentication with Kerberos on your BusinessObjects Enterprise system. No configuration is necessary on the Explorer servers. Information: See the SAP BusinessObjects Enterprise Administrator's Guide for XI 4.0 at: <http://help.sap.com>. 3.6.3.

4 SSO for LDAP authentication using SiteMinder The SiteMinder provider uses a cookie SMSESSION containing a unique session ID to be used as a user name to perform an authentication using secLDAP or secWinAD. Note: this provider is based on a generic provider with predefined values, as specified below. 34 2010-11-05 System Management It works as follows: · Retrieves the SiteMinder session cookie from the current execution context · Logs on to the server with authentication using this cookie value You need to set the following parameters: Setting className cms Description Values com.businessobjects.datadiscovery.sso.generic.GenericSSOProvider controls the CMS used for authentication. It <cms_name> can be used to override the default CMS By default, this is set to: secLDAP. It can be changed to secWinAD the method to be used to retrieve the user name The value is set to COOKIE by default.

Note: The default value should not be changed. authentication user.retrieval usspecifies the parameter used by the user.re- The value is set to SMSESSION by default. er.

param retrieval method to retrieve the user name Note: The default value should not be changed. Example: ## SiteMinder parameters (sso.siteminder) # sso.siteminder.className=com.

businessobjects.datadiscovery.sso.generic.GenericSSOProvider sso.siteminder.cms= sso.siteminder.authentication=secLDAP sso.siteminder.

user.retrieval=COOKIE sso.siteminder.user.param=SMSESSION 3.6.3.5 Enabling Trusted Authentication You need to configure the Business Objects Enterprise CMC for trusted authentication before you can enable trusted authentication on SAP BusinessObjects Explorer. 35 2010-11-05 System Management Information: See the section on enabling trusted authentication in the SAP BusinessObjects Enterprise Administrator's Guide for XI 4.0 at: <http://help>.

sap.com. To enable trusted authentication on SAP BusinessObjects Explorer: 1. Stop the Explorer Web Application Server. 2.

Open the following file for edit: \$<ExplorerWebappRoot>/WEB-INF/classes/sso.properties 3. Set the following parameters: Setting cms.default Values Enter the CMS name and port number as follows: <servername.portnumber > true false sso.

enabled siteminder.enabled 4. Find the following string: trusted.auth.user.retrieval 5. Enter the parameter value that corresponds to the user retrieval method you want to implement: 36 2010-11-05 System Management User Retrieval Method Value Retrieve the user name from a call to getRemoteUser () on the HttpServletRe- REMOTE_USER quest object for the current request in a servlet or JSP. Note: For .NET the following properties need to be set on your InfoViewApp directory, using IIS Manager: · disable Anonymous access checkbox · enable the Windows Integrated Authentication checkbox Retrieve the user name from the contents of a specified parameter in the request HTTP_HEADER URL. Note: You define the query string parameter in the trusted.

auth.user.param parameter in the web.xml file for BI launch pad . Retrieve the user name from the contents of a specified cookie. Note: You define the cookie in the trusted.auth.user.param parameter in the web.xml file for BI launch pad .

COOKIE Retrieve the user name from the contents of a specified session variable. Note: You define the web session variable in the trusted.auth.user.param parameter in the web.

xml file for BI launch pad . WEB_SESSION Retrieve the user name from a call to getUserPrincipal () .getName () on the USER_PRINCIPALHttpServletRequest object for the current request in a servlet or JSP. PAL 6. Verify you have specified how to retrieve the shared secret for BusinessObjects Enterprise.

To retrieve the shared secret from a session variable, you need to configure the \$<ExplorerWebappRoot>/WEB-INF/classes/sso.properties file on SAP BusinessObjects Explorer. 7. Set the following parameter value in the \$<ExplorerWebappRoot>/WEB-INF/classes/sso.properties file: 37 2010-11-05 System Management Parameter Value trustEnter the session variable name from which to retrieve the shared secret. ed.auth.shared.secret 8. Save and close the file.

Re-start the Explorer Web Application Server. 3.7 Managing Information Spaces 3.7.1 Authorization required for Information Spaces The supported data providers for SAP BusinessObjects Explorer 4.0 are: · BusinessObjects universes (.unx files) created using the SAP BusinessObjects information design tool.

The universes are based on RDBMS. · Excel spreadsheets (.xls, .

xlsx files) created using Microsoft Excel Building on BusinessObjects universes To create an Information Space on a universe you need to have the following rights enabled for your in the SAP BusinessObjects Enterprise CMC: · access rights to the universe · access rights to the folder in which the universe is stored on the CMS. 3.7.1.1 Uploading Excel spreadsheets as data provider The Excel files used by Explorer need to be flat files, that is simple data files with one record per row without structuring such as multiple tables, or crosstabs or charts.

1. How you select the Excel spreadsheet depends on where the file is stored: · If the file is stored on the CMS, click the Manage Spaces tab and then select the file from within the "Excel spreadsheets" folder. · If the file is on your local machine, navigate to the " Upload a spreadsheet to explore" section on the Home tab, click Browse and then select the file from your local directory. 38 2010-11-05 System Management 2. Optional: If the file is on your local machine, you can opt to explore it immediately in Explorer.

If you want to specify how each type of data should be translated when viewed as objects within Explorer, then you need to configure the new Information Space before you explore it. For example, if the Excel file contains more than one sheet, you can specify which sheet you want Explorer to use. You can also specify for each column whether the values are labels (that is, non-numerical characters) or if the values are measures.



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In the case of values being measures, you can select whether the measure is a SUM, MIN or MAX value. Note: By default, Explorer interprets all numerical values as SUM, except for dates. 3. How you specify properties for the Information Space depends on where the Excel file is stored: · click Preview and Configure. · click Configure. 4. If the file contains multiple sheets, select which sheet you want to make explorable and then click the drop-down box above each column to specify whether Explorer should interpret the column values as a measure or label.

5. To verify that the Information Space contains no errors, click Validate. If the Excel file is stored on the CMS, the Information Space remains available from within Explorer. If the Excel file is stored on your local machine, the Information Space is automatically deleted when you log out of Explorer. However, you can save the Information Space as a bookmark and so re-visit it. Related Topics · Configuring the number of possible concurrent Excel uploads 3.7.2

Controlling access rights to the Information Space folders After creating and testing an Information Space, set security rights to the folder where the Information Space is located within the SAP BusinessObjects Enterprise CMC. Security rights can prevent any unauthorized personnel accessing, viewing, or performing operations on the Information Space. Alternatively, move the Information Space to a secure folder.

3.7.3 Indexing best practices Performance during indexing is dependent upon the hardware (hard drive, memory and JVM heap size) number of concurrent users, number of Information Spaces being indexed concurrently, and the size of those Information Spaces. 39 2010-11-05 System Management If users only access SAP BusinessObjects Explorer during working hours, schedule the indexing over night, users are not impacted by indexing. If you have medium sized Information Spaces and concurrent user access is not expected, then a single high-end machine is considered to be efficient.

However if you have many users indexing and exploring large Information Spaces constantly, ensure the following: · SAP BusinessObjects Explorer is deployed in a cluster with additional machines each having extra servers The number of machines deployed is dependent on the number of expected concurrent users and the size of the Information Spaces. · · fast hard disk drives are installed on each machine there is a large amount of memory on each machine (especially on the host machine with the Master Server) the JVM heap size for each server on each machine is configured correctly according to available memory Scheduling Information Spaces for indexing does not impact performance if you have deployed, installed, and configured everything correctly. 3.7.4 Testing your Information Space After indexing your Information Space, perform a test to ensure it has been indexed correctly and it is what you expect: · · · · Ensure that the Information Space appears within the "Home" tab.

Click Refresh to update the list. Click the Information Space to launch it. Check the facets to see if they represent the objects you selected during creation. Navigate through the data to ensure that the Information Space matches the original business needs and user requirements. 3.7.5 Information Space design best practices Before creating Information Spaces, gather the information requirements of your end users by asking the following questions: · What exactly is the business need of the Information Space? If you know what the Information Space is going to be used for, then you can simply identify the related data source objects. For example, the business need is for knowing the sales revenue last 40 2010-11-05 System Management year for all of your European stores.

You could select the Sales Revenue measure, the Country, City, and Store dimensions, and finally, the Last Year filter. · How many users are expected to access and explore the Information Space? If you know that the Information Space is for several users, select only necessary objects.

If you select too many objects that can have little use for the user, exploration and indexing can be impacted. It can also cause confusion to users. · What are the sizing limits? Be aware of the sizing limits of your installation. Ask your administrator for further information. · What are the security expectations?

Ensure that you select objects that are only meant to be in the Information Space. · Is a single Information Space the best option? Several small Information Spaces can often be better than a single Information Space. · What is the best data provider to use? Depending on the business need and user demand, choose a source data system and data provider that is the most efficient and most accurate. · What is the context of the Information Space? While choosing your data source objects, ensure that you know if any contexts are required. A context makes certain that the Information Space represents the desired perspective. For example: Sales or Reservations.

· If my Information Space is created on a BusinessObjects universe, what filters can be applied so that only data of interest is retrieved? By using filters, only the data necessary for a specific informaton need is included into the Information Space. For example, by including a filter called "Last Year,", only data from the previous year is retrieved into the Information Space when users explore it. Note: Filters are created at the data provider level when the BusinessObjects universe or BWA index is designed. · Is the definition you want valid? Validate the definition of your Information Space before indexing, by clicking the Validate button when you have selected the objects and filters you want to include. 41 2010-11-05 System Management 42 2010-11-05 Network and

Communication Security Network and Communication Security 4.

1 Network security You can deploy SAP BusinessObjects Explorer in a distributed scenario over multiple nodes, using firewalls and reverse proxies for your security to set up a complex environment that ensures security and failover. 43 2010-11-05 Network and Communication Security 4.1.1 Firewall port usage for SAP BusinessObjects Explorer When you deploy SAP BusinessObjects Explorer, you can protect your network with a firewall, however the firewall can block network communication between your deployment nodes. For example, if you have deployed the Explorer Web Application on one node, deployed the Explorer servers on another node and various BusinessObjects Enterprise servers are already deployed on a third node, you may have to open ports to allow the nodes to communicate.

44 2010-11-05 Network and Communication Security Each server can be configured so that they use a specific port. The firewall can then be configured so that the specific ports are open.



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It is necessary to choose a set of port numbers which do not interfere with other network services and it is necessary to ensure that the correct servers are configured. For example, the following servers are required to have their ports configured on a simple Explorer deployment: · Central Management Server · Explorer Master Server · Explorer Indexing Server · Explorer Search Server · Explorer Exploration Server · Web Intelligence Processing Server Note: If you allow access to the CMS, other services can connect and exchange information. Example: Port configuration This example demonstrates how you could configure servers on a simple deployment: Server Port Central Management Server Explorer Master Server Explorer Indexing Server Explorer Search Server Explorer Exploration Server Web Intelligence Processing Server 64002 64023 64022 64024 64021 64032 4.1.2 Reverse proxies SAP BusinessObjects Explorer supports the same reverse proxy configuration as SAP BusinessObjects Enterprise. No specific reverse proxy configuration for SAP BusinessObjects Explorer is required. Information: For information about reverse proxy configuration for SAP BusinessObjects Enterprise, refer to the BusinessObjects Enterprise Administrator's Guide XI 4.0 available on the "SAP BusinessObjects" tab at: <http://help.sap.com>.

45 2010-11-05 Network and Communication Security 4.1.3 Configuring servers for SSL You can use the Secure Sockets Layer (SSL) protocol for all network communication between clients and servers in your BusinessObjects Enterprise deployment. the SSL recommendation. Refer to the section on distributed deployment scenarios referenced in Related Topics for security recommendations using SSL, and also the specific recommendations for multiple master server deployments. Information: For information about configuring SSL for SAP BusinessObjects Enterprise, refer to the BusinessObjects Enterprise Administrator's Guide XI 4.0 available on the "SAP BusinessObjects" tab at: <http://help.sap.com>.

46 2010-11-05 Data storage security Data storage security 5.1 Data and metadata storage locations Data is stored in binary format in indexes. Where the data is stored depends on the data provider. If the data provider is a BusinessObjects universe or an Excel spreadsheet, the data is stored on the BusinessObjects Enterprise Central Management Server (CMS) file system.

Metadata is stored in the BusinessObjects Enterprise CMS. When indexing, multiple files called "indexes" are created. There are exploration indexes and global search indexes (leveraged by the Search on the Home tab of Explorer). By default, indexes are located under InstallDir\SAP BusinessObjects Enterprise XI 4.0\Data\Polestar\ on each node except the Explorer Master servers.

As an administrator, you can change the storage location per server. You do this from within the SAP BusinessObjects Enterprise CMC, for each of the servers. Note: When users export their exploration views of Information Spaces to CSV or Excel files, temporary data is stored on the SAP BusinessObjects Enterprise File Repository Service (FRS). This data is not human readable. 5.2 Data protection SAP BusinessObjects Explorer relies on database, and SAP BusinessObjects Enterprise platform security. Explorer itself does not store data except in the indexes leveraged by Explorer Information Spaces. These indexes are stored in a binary format that is not human readable. However, indexes may contain sensitive data. To ensure that the data is secured, the BusinessObjects Enterprise CMS file system folders, which host the indexes based on BusinessObjects universes and Excel spreadsheets, need to be set to restricted access.

5.3 Cookies 47 2010-11-05 Data storage security The client-side cookies used by Explorer do not store business data; the only information maintained by the browser (using cookies) is the session token. Explorer cookies are not persistent. Users of shared computers simply need to make sure they close the browser before leaving the workstation. 48 2010-11-05 High Availability High Availability 6.1 Ensuring system availability If you have a large or mission-critical implementation of SAP BusinessObjects Explorer, you will want to ensure high availability for the following services: · SAP BusinessObjects Enterprise CMS

- deploy more than one BusinessObjects CMS to manage your BusinessObjects Enterprise services. The two CMS servers work together to maintain consistency of critical data. @@@@ @@@@ Related Topics · Configuring failover between CMS servers 6.2 Configuring failover between CMS servers To run several SAP BusinessObjects Enterprise CMS machines together, you need to create a cluster. A cluster consists of two or more CMS servers working together against a common CMS system database.

If a machine that is running one CMS fails, a machine with another CMS will continue to service SAP BusinessObjects Enterprise requests. Note: For full details on how to cluster a CMS with an existing CMS, refer to the section on clustering Central Management Servers in the SAP BusinessObjects Enterprise XI 4.0 Administrator's Guide available on the SAP Help portal at <http://help.sap.com>.

49 2010-11-05 High Availability 50 2010-11-05 Troubleshooting Troubleshooting 7.1 Understanding error messages Information about each error message generated by an Explorer service or component is provided in the SAP BusinessObjects Explorer Error Message Guide available at: <http://help.sap.com>. 51 2010-11-05 Troubleshooting 52 2010-11-05 More Information More Information Information Resource Location SAP BusinessObjects product information <http://www.sap.com>

Navigate to <http://help.sap.com/businessobjects> and on the "SAP BusinessObjects Overview" side panel click All Products. You can access the most up-to-date documentation covering all SAP BusinessObjects products and their deployment at the SAP Help Portal. You can download PDF versions or installable HTML libraries. Certain guides are stored on the SAP Service Marketplace and are not available from the SAP Help Portal. These guides are listed on the Help Portal accompanied by a link to the SAP Service Marketplace. Customers with a maintenance agreement have an authorized user ID to access this site. To obtain an ID, contact your customer support representative.

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