

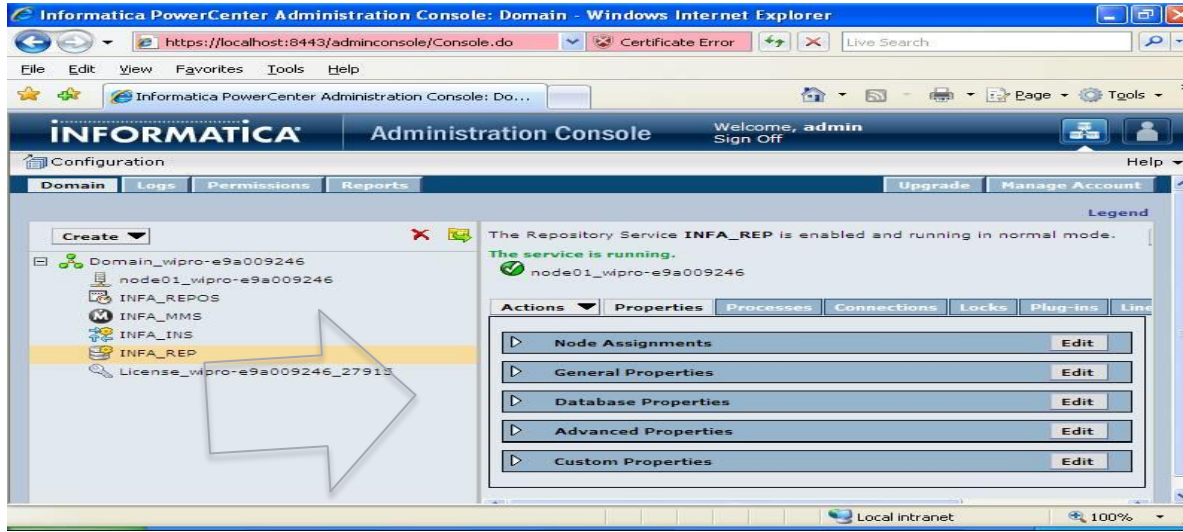


Repository Service

Repository Service

- PowerCenter client applications and Integration Service access the repository database tables through the Repository Service
- Each Repository Service manages a single repository database
- Can configure a Repository Service to run on multiple machines, or nodes, in the domain. Each instance running on a node is called a Repository Service process.
- The Repository Service process is a multi-threaded process that performs the action needed to retrieve, insert, and update metadata in the repository database tables

Repository Service (Contd.).

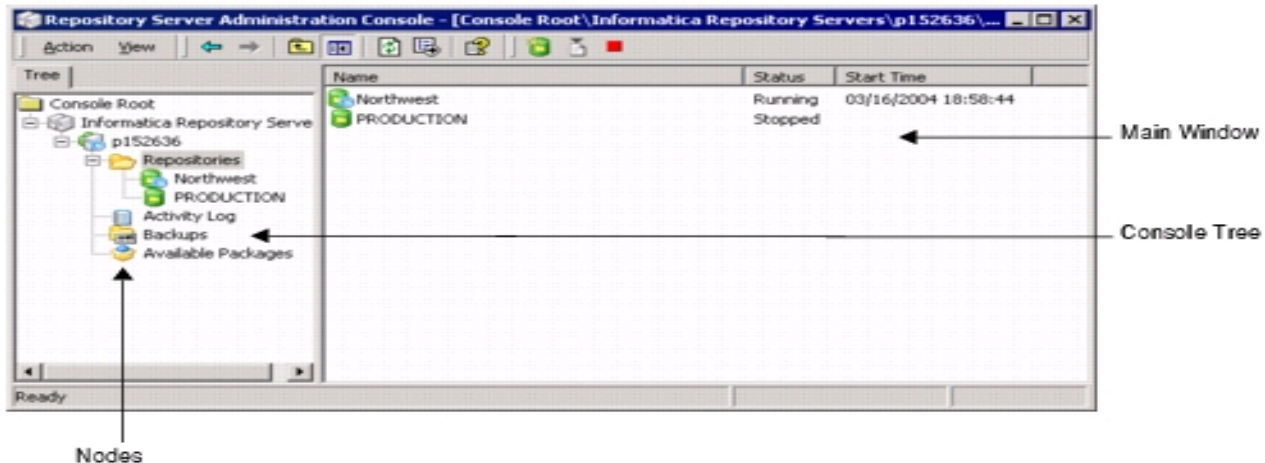


§ The Repository Service is an application service that manages the repository

§ It retrieves, inserts, and updates metadata in the repository database tables

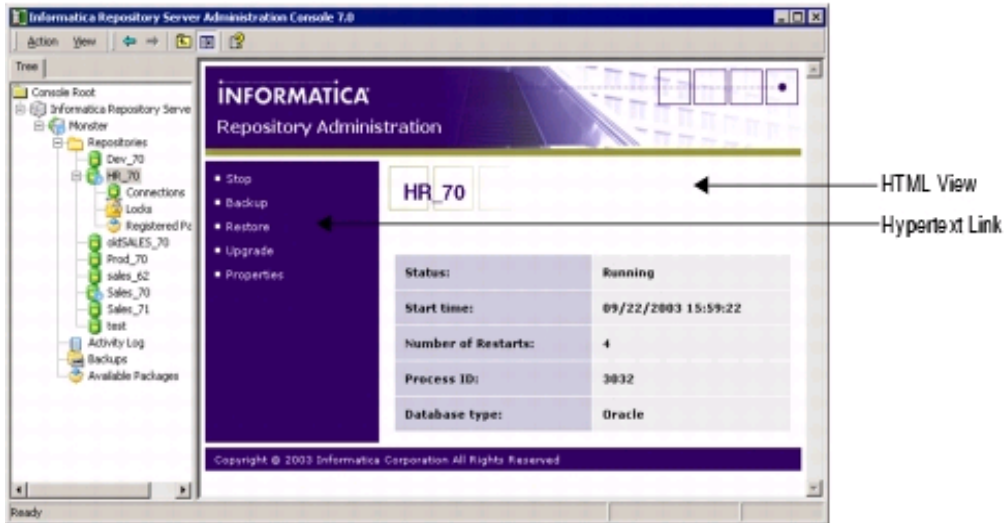
Administration Console

- Use the Administration Console to connect to the Repository and perform repository administration tasks, such as copy, delete, back up, and restore repositories
- The Administration Console is a web application used to administer the PowerCenter domain and PowerCenter security
- Allows to navigate multiple repositories, and perform repository management tasks

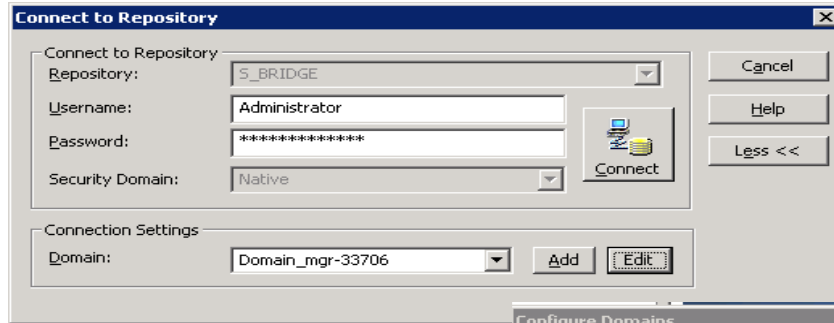


Administration Console (Contd.).

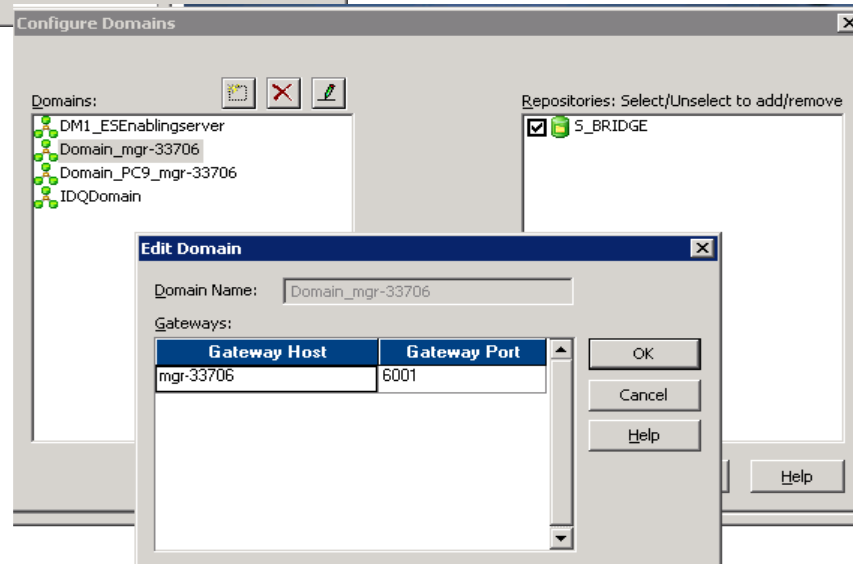
- Repository Name Node Details
 - When you select a repository in the Console Tree, the Main window displays details about the repository in HTML view. The Main window also displays HTML links that allow you perform some repository tasks



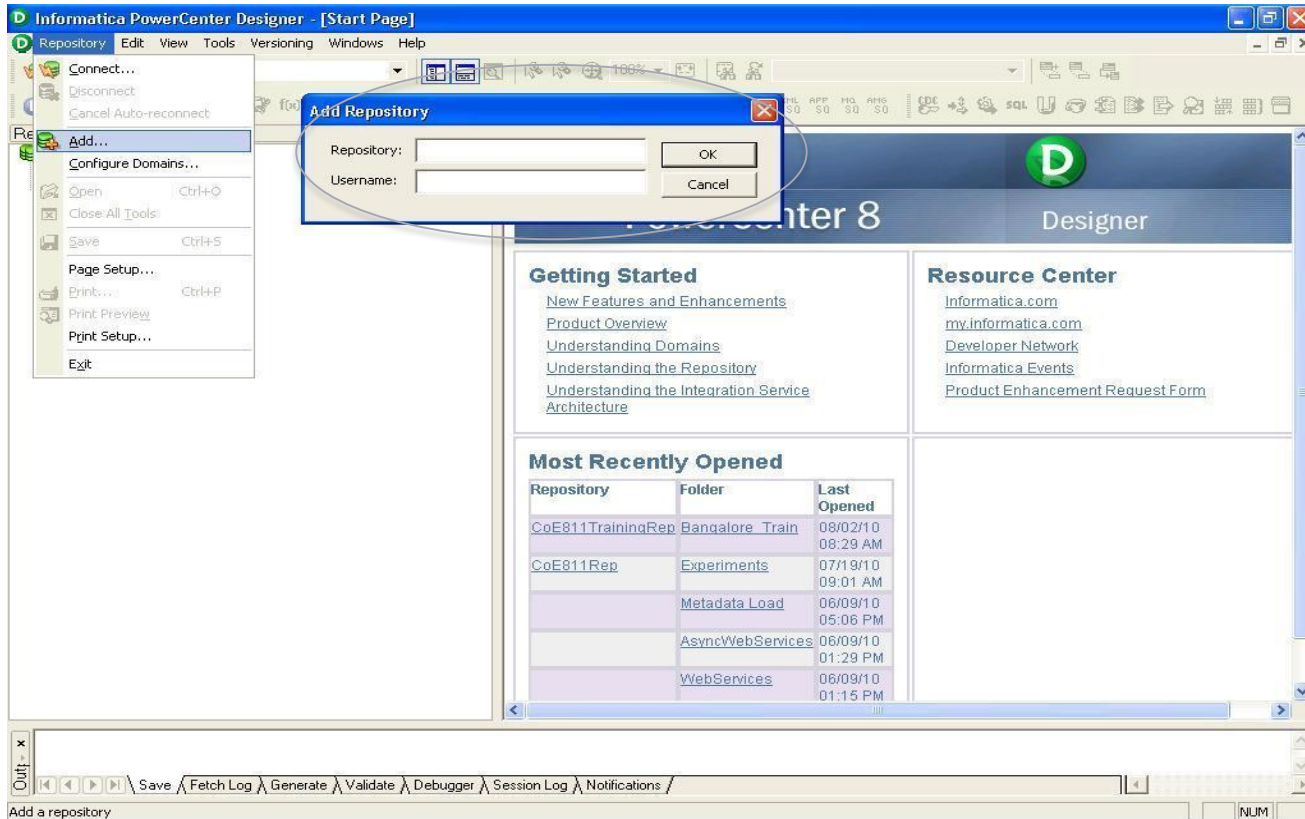
Repository Connections



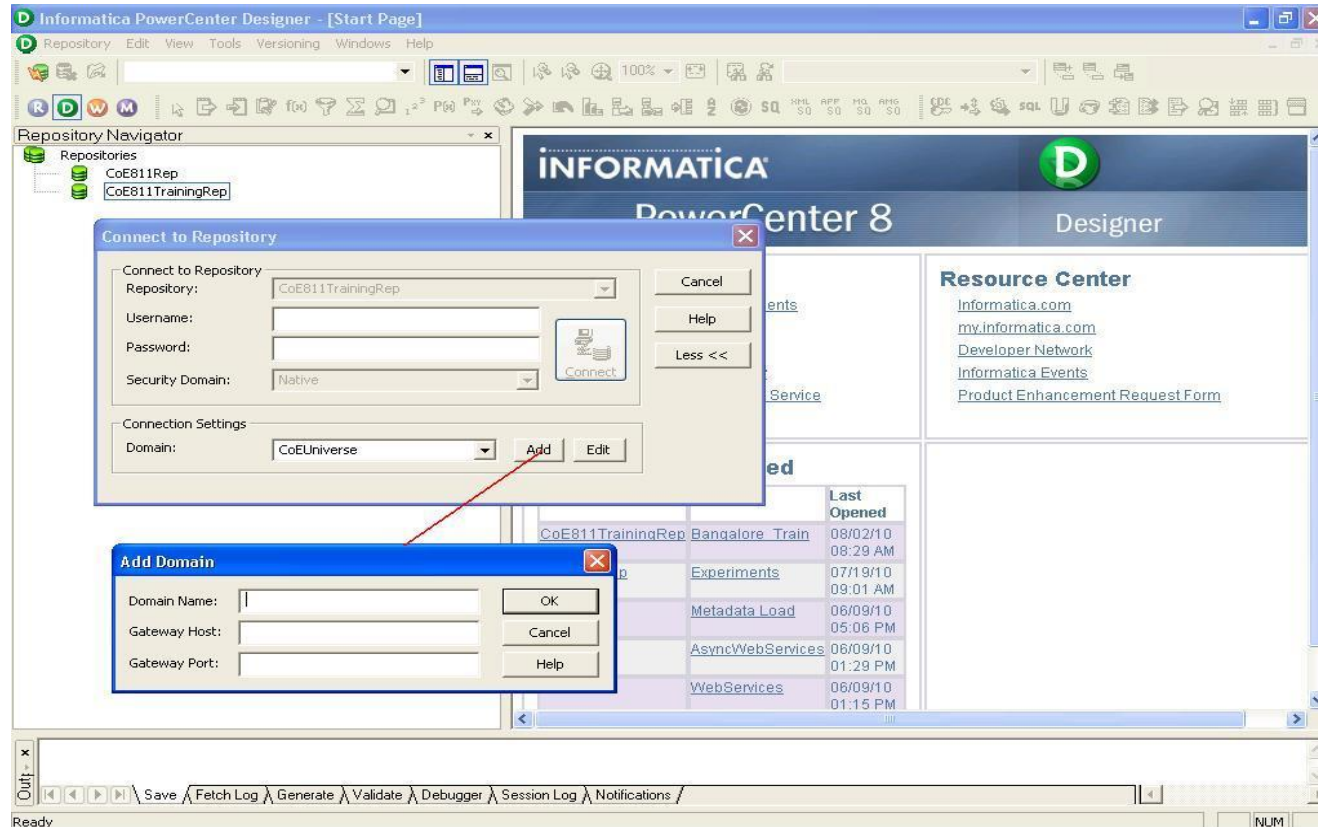
Repository
Connection



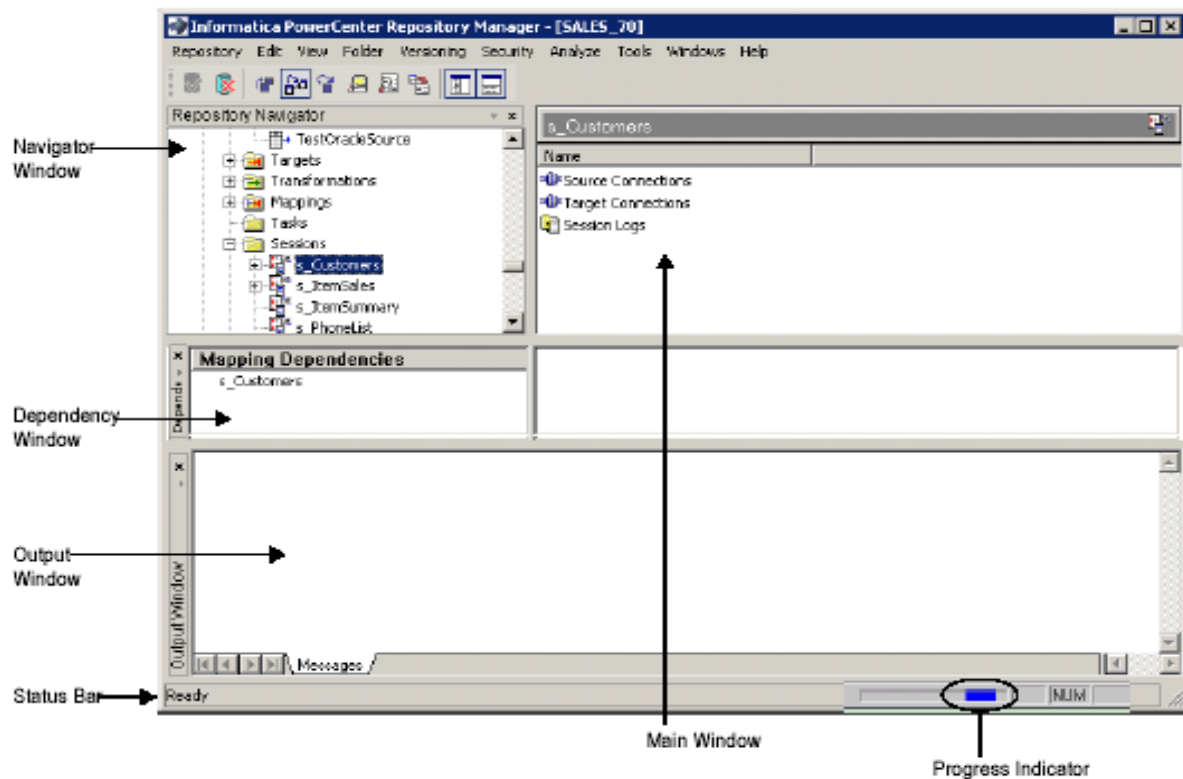
Repository Connections (Contd.).



Repository Connections (Contd.).



Repository Manager Window



Activity: Choose the correct fit

Each Repository Service manages _____ repository database (single/multiple)

The _____ service updates metadata in the repository database tables (Integration/Repository)

The Repository Service process is a _____ process (single thread/Multi threaded)

Copy and Backup a Repository

- Can copy a repository from one database to another
- If the database into which the repository has to be copied contains an existing repository, the copy operation fails
- Backing up a repository, saves the entire repository in a file
- Repository Service stores the file in the backup location specified for the node
- Can recover data from a repository backup file

Viewing the Repository Metadata

- PowerCenter Metadata Exchange (MX) provides a set of relational views that allow easy SQL access to the PowerCenter metadata repository
- The Repository Manager generates these views when repository is created or upgraded
- MX views provide information to help analyze metadata stored in the repository
- Use these views to create reports using third-party reporting tools, such as Crystal Reports

Security

- Administer PowerCenter security on the Security page of the Administration Console
- Manage users and groups that can log in to the following PowerCenter applications
 - Administration Console
 - PowerCenter Client
 - Metadata Manager
 - Data Analyzer
- Can assign users to multiple groups
- Privileges are assigned to users and groups for the domain and for each of the application services in the domain: Repository Service, Metadata Manager Service, and Reporting Service

Repository Security

- Can plan and implement security using the following features:
 - User groups
 - Repository users
 - Repository privileges
 - Folder permissions
 - Locking
- Can assign users to multiple groups
- Privileges are assigned to groups
- Can assign privileges to individual usernames and must assign each user to at least one user group

Security – Viewing Locks

- Can view locks in the Administration Console

The screenshot shows the Informatica Administration Console interface. At the top, the Informatica logo and 'Administration Console' are visible, along with a welcome message for 'admin' and a 'Sign Off' link. The 'Configuration' tab is selected, and the 'Locks' sub-tab is active. A message states: 'The Repository Service INFA_REP is enabled and running in normal mode.' Below this, a green checkmark and the text 'The service is running.' are highlighted with a red circle, followed by the node ID 'node01_wipro-e9a009246'. A 'Disable' button is also present. The 'Locks' table lists the following data:

| User | Connection ID | Folder | Object Type | Object Name | Lock Type | Lock Time | Host Name | Application |
|-------|---------------|-----------|-------------|-----------------|----------------------|---------------------|-----------------|------------------|
| admin | 2305 | | Repository | INFA_REP | subtree-intent-write | 09/23/2009 11:45:51 | wipro-e9a009246 | Workflow Manager |
| admin | 2305 | BDC_Sep15 | Folder | | in-use | 09/23/2009 11:45:45 | wipro-e9a009246 | Workflow Manager |
| admin | 2305 | BDC_Sep15 | Folder | | subtree-intent-write | 09/23/2009 11:45:51 | wipro-e9a009246 | Workflow Manager |
| admin | 2305 | BDC_Sep15 | Scheduler | Scheduler | in-use | 09/23/2009 11:45:48 | wipro-e9a009246 | Workflow Manager |
| admin | 2305 | BDC_Sep15 | Session | s_Employee_Recs | in-use | 09/23/2009 11:45:51 | wipro-e9a009246 | Workflow Manager |

How to resolve locks

INFORMATICA Administration Console Welcome, Administrator
Sign Off

Configuration

Domain Logs Permissions Reports Upgrade Manage

Create [X] [i] The Repository Service **S_BRIDGE** is enabled and running in normal mode. **Disable**

The service is running.
node01_mgr-33706

Actions [X] Properties Processes Connections Locks Plug-ins Lineage Permissions Logs

End All User Connections

| Status | User | Connection ID | Domain/Service | Application | Host Name | Host Address | Host Port |
|----------|---------------|---------------|--|--------------------|----------------------|---------------|-----------|
| X Active | Administrator | 4465 | / | | mgr-33706 | 10.201.61.228 | 4332 |
| X Active | Administrator | 4470 | Domain_mgr-33706/S_PZ Integration Service (pmserver) | mgr-33706 | 10.201.61.228 | 4488 | 81 |
| X Active | Administrator | 4471 | Domain_mgr-33706/S_PZ Integration Service (pmserver) | mgr-33706 | 10.201.61.228 | 4492 | 81 |
| X Active | Administrator | 4472 | Domain_mgr-33706/S_PZ Integration Service (pmserver) | mgr-33706 | 10.201.61.228 | 4502 | 81 |
| X Broken | tuser | 4475 | | Workflow Monitor | mgr32566.hobbits.com | 10.201.61.227 | 3877 |
| X Active | Administrator | 4501 | Domain_mgr-33706/S_PZ Integration Service (pmserver) | mgr-33706 | 10.201.61.228 | 3577 | 81 |
| X Active | Administrator | 4507 | | Repository Manager | mgr-33706 | 10.201.61.228 | 4741 |
| X Active | Administrator | 4508 | | Designer | mgr-33706 | 10.201.61.228 | 4928 |

INFORMATICA Administration Console Welcome, Administrator
Sign Off

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Domain Logs Permissions Reports Upgrade Manage

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Locks types

- There are five kinds of locks on repository objects
 - **Read lock** : created when you open a repository object in a folder for which you do not have write permission
 - **Write lock** : created when you create or edit a repository object
 - **Execute lock** : created when you start a session or batch
 - **Fetch lock** : created when the repository reads information from the database
 - **Save lock** : created when the repository is being saved



Thank You