

Take Your Portal Technologies to the next level with Single Sign On and E-Business Suite Portlets

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Who Am I?

- Manager
IT Solutions Engineering
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Jet Propulsion Laboratory
California Institute of Technology
- Extensive experience with Oracle Applications, Java, Database, Messaging, Middle Tier and Single Sign On technologies

Session Content

- Using Oracle Portal, E-Business Suite and Discoverer for your integrated reporting
- Implementing Single Sign On with Oracle OID and SSO Server
- Integrating E-Business Suite, Portal and Discoverer
- User provisioning and bulk load of users from EBS to OID
- Deploying Oracle Application Framework portlets and Discoverer portlets in corporate portal pages
 - Apps Navigator, Favorites, User Session, Discoverer

Presentation Agenda

- Company Overview
- Reporting Solutions
- Reporting Architecture
- Single Sign On Overview
- Integration of Oracle Portal, E-Business Suite and Discoverer
- User Provisioning for SSO
- Build corporate portals with E-Business portlets
- Conclusions

Company Overview

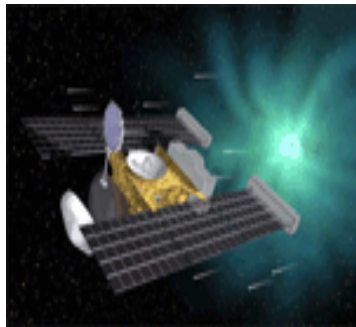
JPL



Jet Propulsion Laboratory

- Funded by National Aeronautics Space Administration (NASA)
- Operated by California Institute of Technology (CALTECH)
- Located in the foothills of Pasadena, California

Company Overview



Mars Exploration Rovers

(Two rovers, Spirit and Opportunity working on opposite sides of Mars)



Stardust (Sampling Cometary material)



Mars Odyssey

(Orbiting Spacecraft designed to determine the composition of the Martian Surface)

Cassini - Huygens

(Mission to Saturn and Titan)



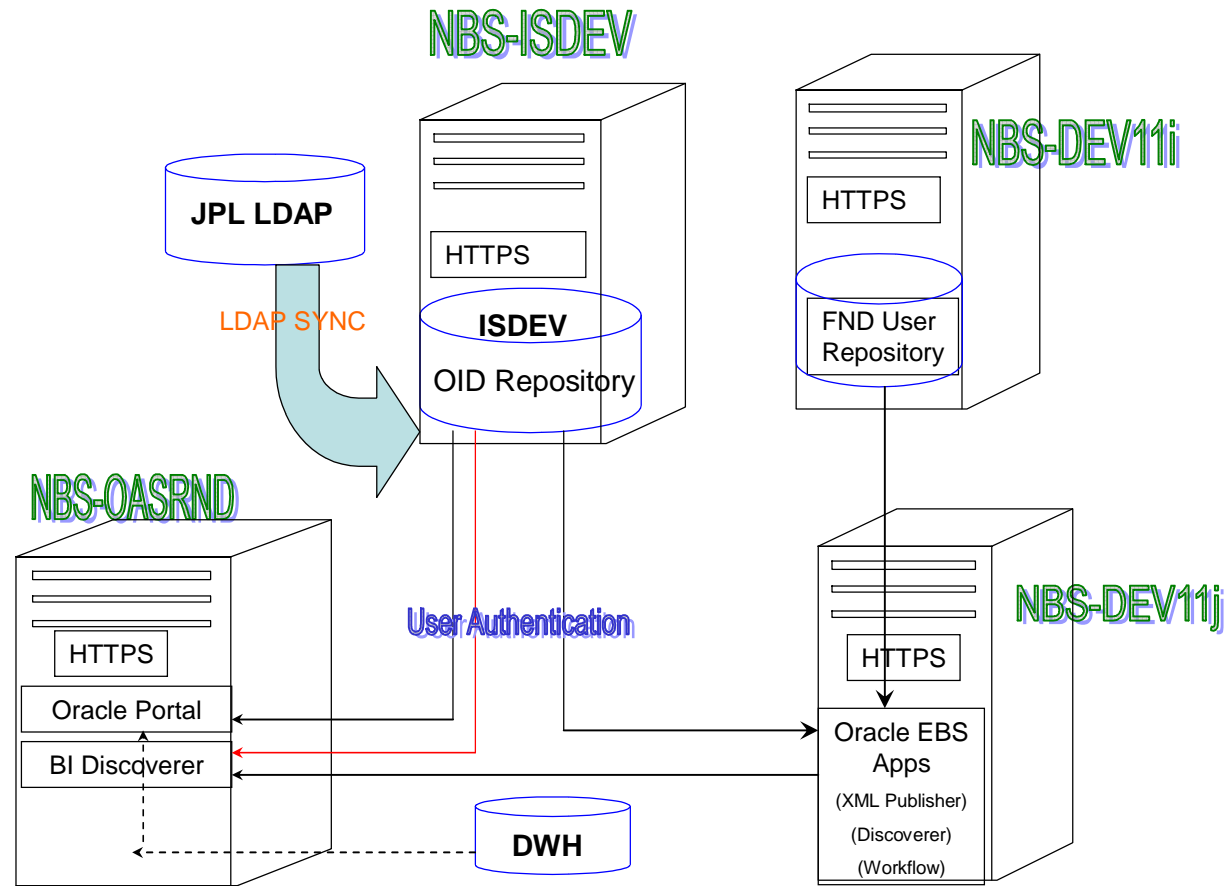
Company Overview

- Institute Business Systems (IBS)
 - Development, Operation, maintenance of Business Applications
- Office of The Chief Information Officer (ICIS)
 - Institutional IT needs
 - JPL IT Infra Structure
 - JPL Project Support

Reporting Solutions

- E-Business Suite of Applications
 - Oracle Reports
 - XML Publisher Reports
 - Oracle Workflow
- BI Discoverer
 - E-Business Suite
 - Relational
 - OLAP
- BI Publisher Reports
- OBIEE
- Custom Web Reports (Java, PL/SQL)

Reporting Architecture



Single Sign On Infra Structure

- Oracle Application Server
- Oracle Portal
- Oracle Internet Directory (OID)
- Oracle Single Sign On Server
- E-Business Suite
- BI Discoverer
- Oracle Workflow
- BI Publisher, XML Publisher

Integration of Oracle Portal, E-Business Suite and Discoverer

- Note 233436.1: Installing Oracle Application Server 10g with Oracle E-Business Suite Release 11i
- Note 305918.1: Using Oracle Portal 10g with Oracle E-Business Suite 11i
- Note 313418.1: Using Discoverer 10g with Oracle E-Business Suite 11i
- Note 306653.1: Installing and configuring Oracle Application Server Web cache with Oracle E-Business Suite 11i
- Note 340178.1: Enabling SSL with Oracle Application Server 10g and E-Business Suite

User Provisioning for SSO

- Define User Provisioning
 - EBS to OID
 - OID to EBS
 - Bi-directional
- Assign Preferences - Self Service Web Applications responsibility to EBS users
- Bulk load EBS Users into OID
- Enable user provisioning from EBS to OID and from OID to EBS

Build Corporate Portals with E-Business portlets

- Create Providers
 - Oracle Application Framework Provider
 - Oracle Discoverer Portlet Provider
- Create portal Pages
 - Portal page group
 - Portal pages
 - User/Role Access
- Add Portlets to portal pages
 - OAFramework portlets like navigator, favorites, session, workflow
 - Discoverer Worksheet, List of Worksheets, Gauges
- Configure Discoverer portlets
 - Create private connections
 - Create parameters for worksheets

OAFramework Provider

Edit Provider Registration - Microsoft Internet Explorer

Address: https://nbs-oasrnd.jpl.nasa.gov:8250/pls/portal/PORTAL.wwpro_app_admin.providerEdit

Home Builder Navigator Help

Main Connection Access

Edit Provider Registration [Apply] [OK] [Cancel]

Provider Information
Enter a unique name for the provider, the timeout (in seconds), the timeout message, and the provider implementation style. The timeout message is presented to the user when a portlet takes longer than the specified time to execute.

Name	OAFRAMEWORKWEBPROVIDER_RND
Display Name	Oracle Applications Framework Provider (RND)
Timeout	100 seconds
Timeout Message	Oracle E-Business Suite Framework Web Provider for
Implementation Style	Web

[Apply] [OK] [Cancel]

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Done Internet

OAFramework Provider (Edit)

Edit Provider Registration - Microsoft Internet Explorer

Address: https://nbs-oasrnd.jpl.nasa.gov:8250/pls/portal/PORtal.wvpro_app_admin.providerEdit

Home Builder Navigator Help
Main Connection Access

Edit Provider Registration [Apply] [OK] [Cancel]

General Properties
Specify the URL for the Web provider and configure its communication settings.

URL:
 Web provider in same cookie domain as the portal

Enter the Service Id, if applicable. Multiple providers can now be accessed via the same URL. The Service Id identifies a specific provider that can be accessed via the specified URL.
 Service Id:
 (example: "um:ADAPTER_PROVIDER" or "um:webProvider")

Specify how the user's identity will be set by the Portal when communicating with the Web provider.

- The user has the same identity in the Web providers application as in the Single Sign-On identity.
- The user's identity needs to be mapped to a different name in the Web provider's application, and/or the Web provider requires an external application login for establishment of a browser session. If selecting this option, specify the external application ID below.

External Application ID:

Enter the Subscription Key, if applicable. The subscription key is passed to the Web provider where it is used to uniquely identify the requester.
 Subscription Key:

Enter the Shared key, if applicable. The key is used for encrypting calls to the provider.
 Shared Key:

User/Session Information
Specify the type of information the provider requires.

Select Public, if no user or session specific information should be sent to the provider and if no calls are to be made to the providers for session initializations.
 Public

Select User, to send user specific information to the provider.
 User

Specify the frequency by which the call to the provider for session initialization is performed.
 Login Frequency:

Select the checkbox, if session specific information is to be sent the provider. Session specific information includes information such as session id and login time.
 Require portal user specific session information.

Proxy Settings
There are no proxies currently specified in the Proxy Settings Page.

[Apply] [OK] [Cancel]

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Discoverer Portlet Provider

Edit Provider Registration - Microsoft Internet Explorer

Address: https://nbs-oasmd.pl.nasa.gov:8250/pls/portal/PORtal.wwpro_app_admin.providerEdit

Home Bulkier Navigator Help

Main Connection Access ?

Apply OK Cancel

Provider Information

Enter a unique name for the provider, the timeout (in seconds), the timeout message, and the provider implementation style. The timeout message is presented to the user when a portlet takes longer than the specified time to execute.

Name	8250DISCOVERERPORTLETPROVIDER
Display Name	8250 Discoverer Portlet Provider 04Jun07
Timeout	90 seconds
Timeout Message	Try back later
Implementation Style	Web

Apply OK Cancel

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Done Internet

Discoverer Portlet Provider (Edit)

Edit Provider Registration - Microsoft Internet Explorer

Address: https://nbs-oasrnd.jpl.nasa.gov:8250/pls/portal/PORtal.WWPRO_app_admin.providerEdit

Home Builder Navigator Help
Main Connection Access ?

Apply OK Cancel

Edit Provider Registration

General Properties
Specify the URL for the Web provider and configure its communication settings.

URL
 Web provider in same cookie domain as the portal

Enter the Service Id, if applicable. Multiple providers can now be accessed via the same URL. The Service Id identifies a specific provider that can be accessed via the specified URL.
 Service Id
 (example: "um:ADAPTER_PROVIDER" or "um:webProvider")

Specify how the user's identity will be set by the Portal when communicating with the Web provider.

The user has the same identity in the Web providers application as in the Single Sign-On identity.
 The user's identity needs to be mapped to a different name in the Web provider's application, and/or the Web provider requires an external application login for establishment of a browser session. If selecting this option, specify the external application ID below.

External Application ID

Enter the Subscription Key, if applicable. The subscription key is passed to the Web provider where it is used to uniquely identify the requester.
 Subscription Key

Enter the Shared key, if applicable. The key is used for encrypting calls to the provider.
 Shared Key

User/Session Information
Specify the type of information the provider requires.

Select Public, if no user or session specific information should be sent to the provider and if no calls are to be made to the providers for session initializations.
 Public

Select User, to send user specific information to the provider.
 User

Specify the frequency by which the call to the provider for session initialization is performed.
 Login Frequency

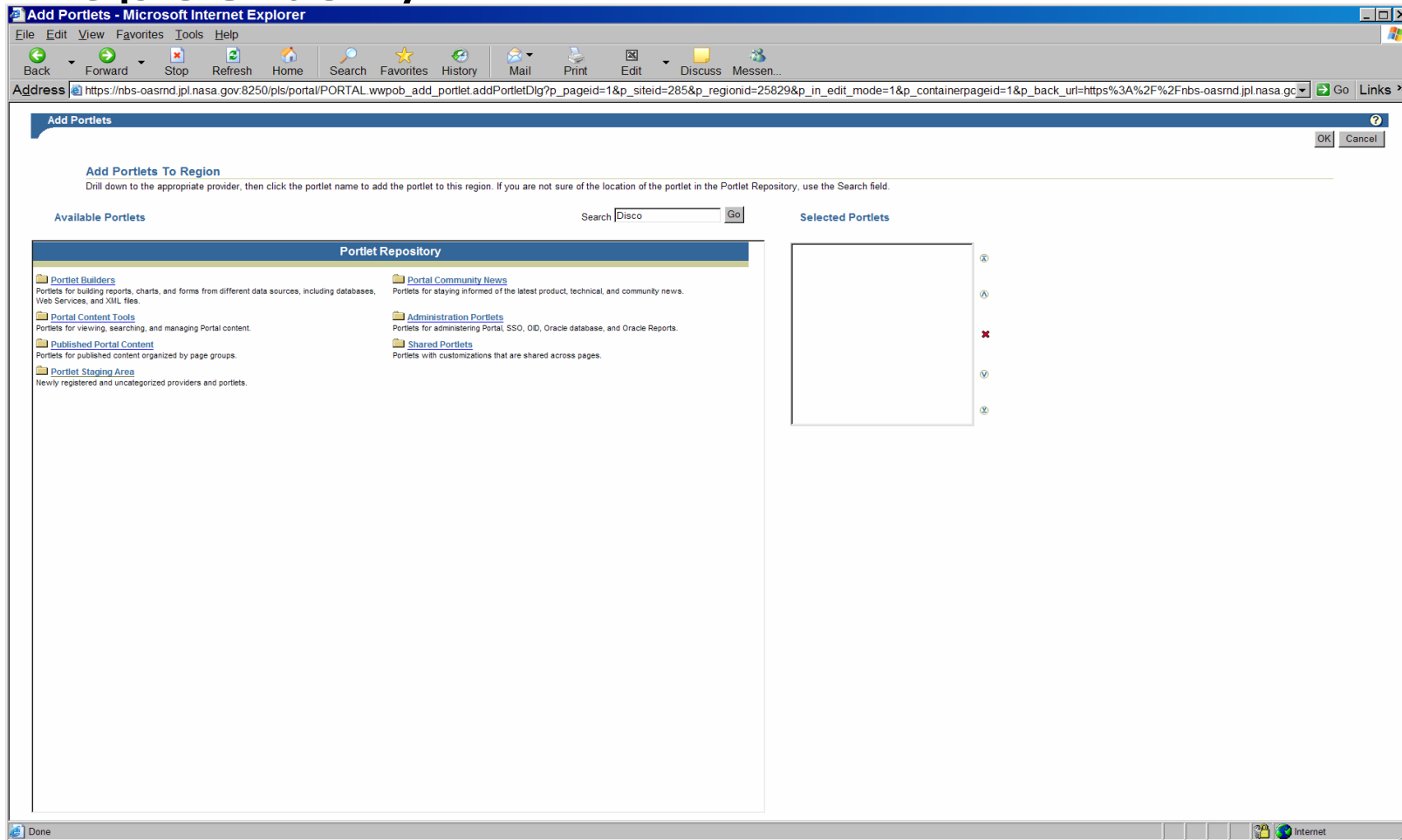
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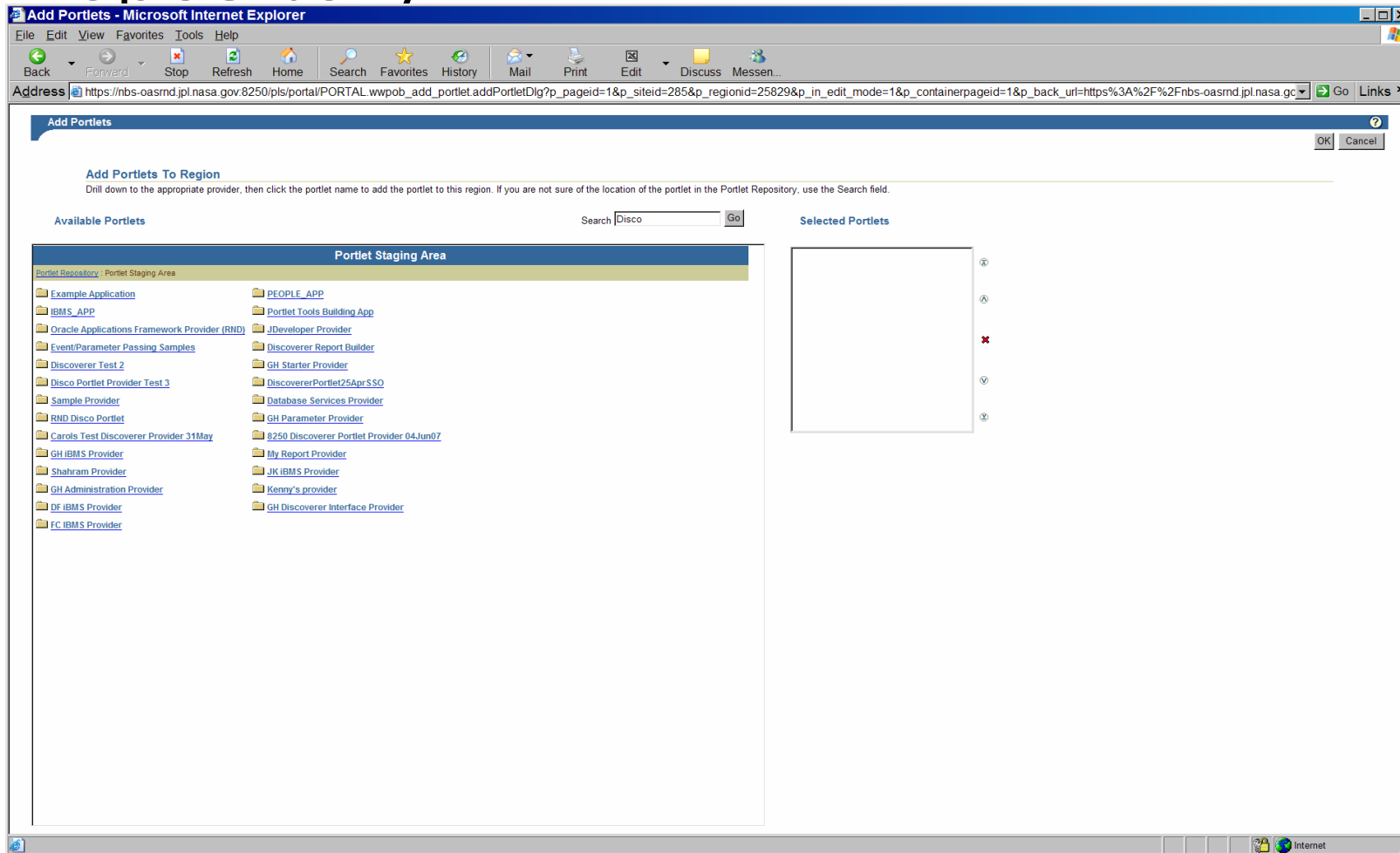
Apply OK Cancel

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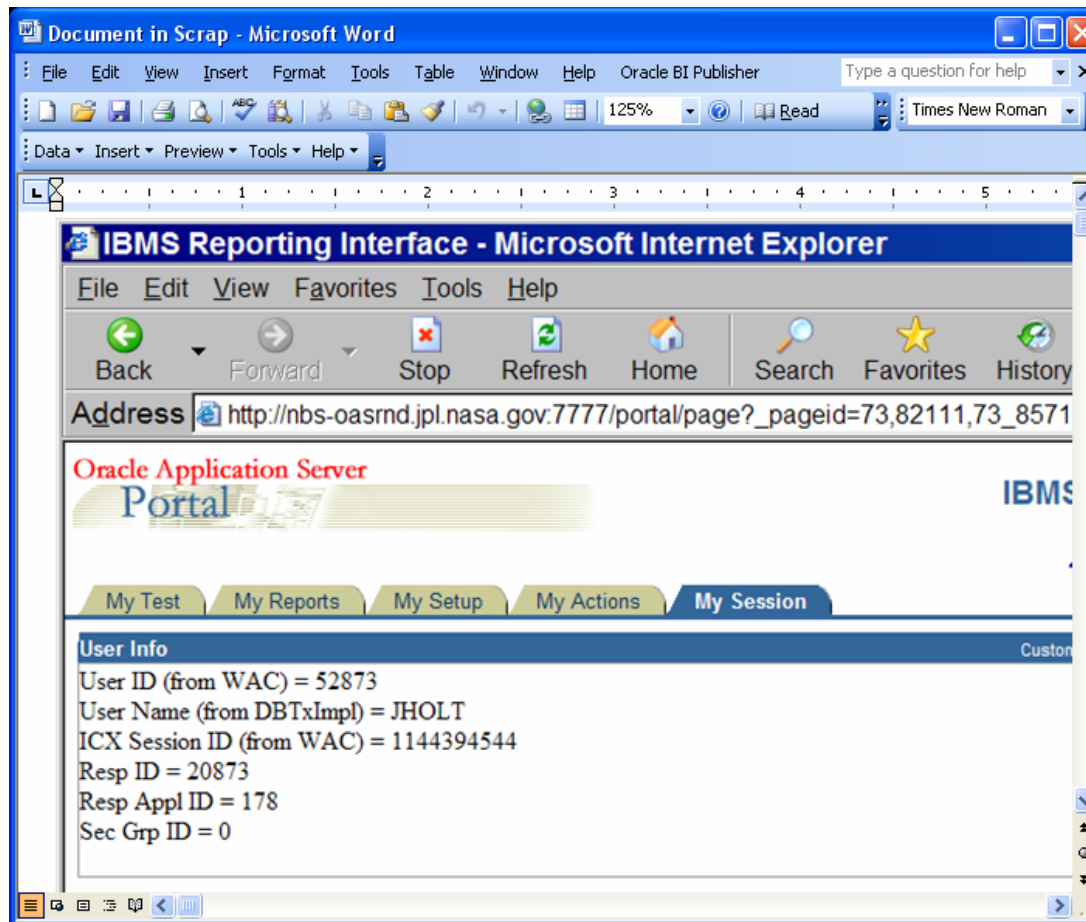
Deploying EBS Portlets from Portlet Repository



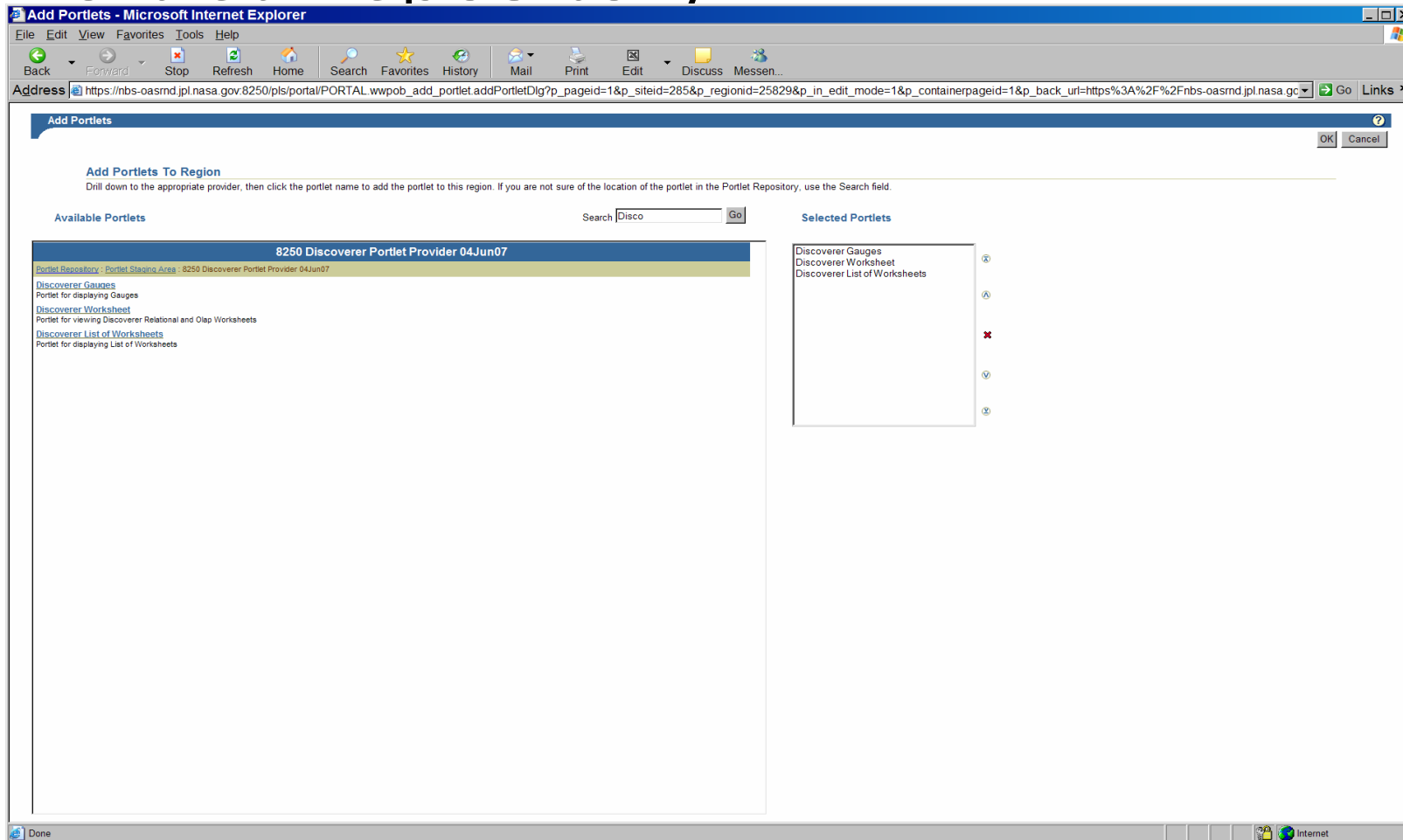
Deploying EBS Portlets from Portlet Repository



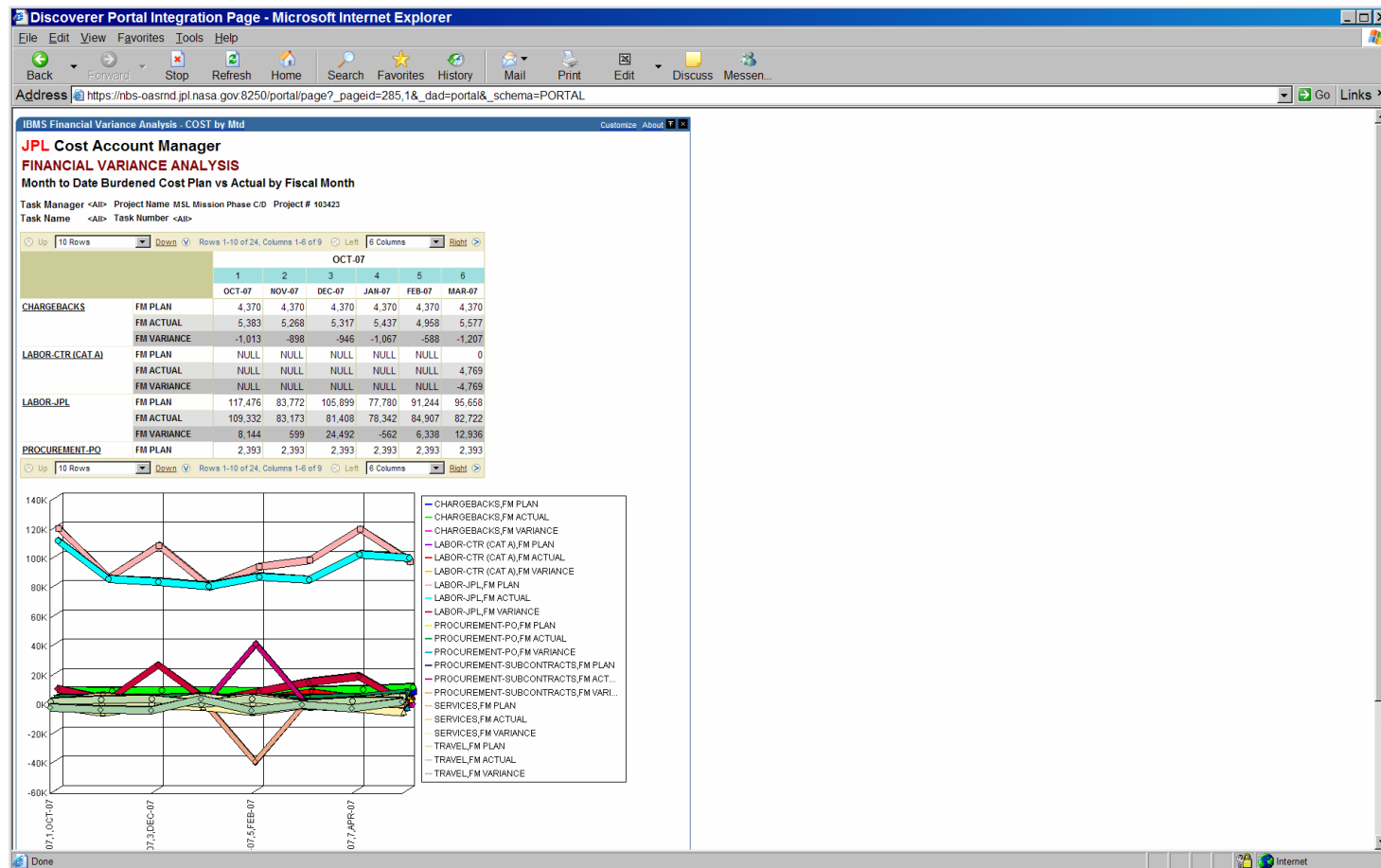
Deploying EBS Portlets from Portlet Repository



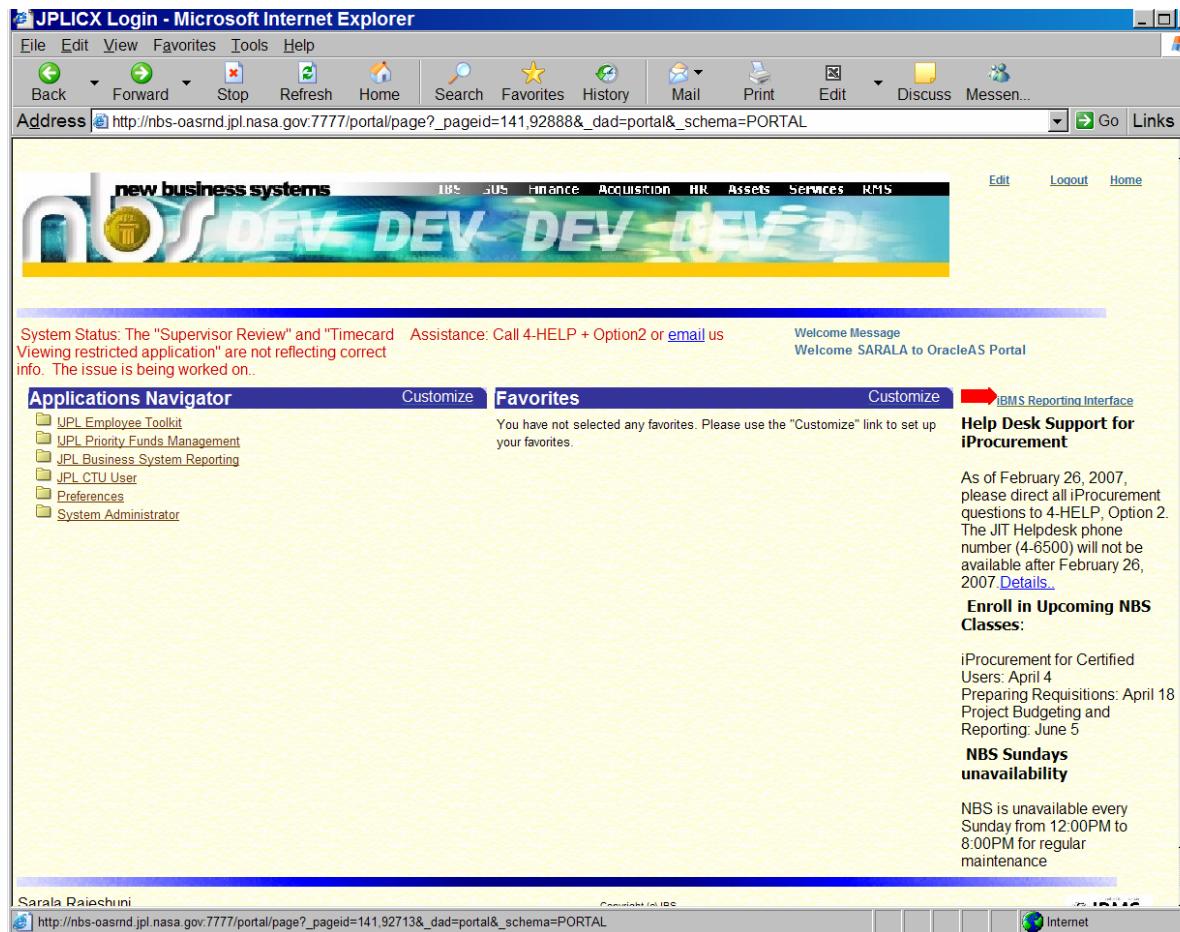
Deploying Discoverer Portlets from Portlet Repository



Deploying Discoverer Worksheet Portlet from Portlet Repository



Corporate Portal with Navigator and Favorites (EBS Portlets)



Corporate Portal with Workflow Portlet

IBMS Reporting UI - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss Messen...

Address http://nbs-oasmd.jpl.nasa.gov:7777/portal/page?_pageid=141,92713,141_92720&_dad=portal&_schema=PORTAL Go Links >>

new business systems IBS BUS Finance Acquisition HR Assets Services RMS Edit Customize Logout Home

DEV DEV DEV DEV

My Reports My Setup My Actions Report Builder Admin

From	Subject	Sent	Due	Priority
To: CAM: 177777 - 07		30-Mar-2007	30-Apr-2007	Normal
To: CAM: 177777 - 07		30-Mar-2007	30-Apr-2007	Normal

Total Notifications : 2 [View All](#)

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Conclusions:

- Business process can be enhanced by using single sign on.
- Integrating Oracle Application Server 10g, Oracle E-Business suite of applications 11i, and Oracle Discoverer 10g provides an integrated reporting environment.
- Oracle Application Server provides users an opportunity to sign on once and access several applications.
- Oracle Application server 10g (middle tier) can be configured to work with EBS for user authentication.
- Users can be provisioned from EBS to OID and OID to EBS
- Oracle Portal can be integrated with Oracle Applications to deploy OAF portlets like workflow, applications navigator, and favorites.
- Oracle Portal can be integrated with Discoverer to deploy discoverer portlets
- Oracle Portal can also use the technologies like Web Clipping, Omni Portal, Instant Portal, java and pl/sql to deploy custom portlets.

Acknowledgement

- Office of the CIO
- Institutional Business Systems
- IBMS Project
- JPL Management and Staff

Contact – Q & A

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