

PeopleSoft Enterprise Directory Interface



Today's self-service applications deliver information and functionality to large groups of users over the internet. Organizations use these applications as a cost-effective way to increase employee productivity and enable the collaborative enterprise. But these applications require users to maintain user profiles, which control access and user settings for each application. For IT departments, managing user profiles has therefore become a critical and costly task in setting up secure data processes for the enterprise. Organizations can use a directory server as a central user profile repository. However, authenticating user profiles and integrating data from various sources with directory servers can be a challenge. Furthermore, the directory servers must continuously be updated with new profiles and profile changes.

Oracle's PeopleSoft Enterprise Directory Interface delivers complete out-of-the-box integration between the leading directory servers and Oracle's PeopleSoft Enterprise HRMS. Directory Interface automatically triggers corresponding changes to any PeopleSoft Enterprise mapped data in the directory when business events occur in HRMS. The Directory Interface integrates with leading directory servers that use the lightweight directory access protocol (LDAP), a common network protocol used to access data within a directory. Directory Interface integrates out of the box with Oracle Internet Directory, Novell NDS eDirectory, (SunONE) Directory Server (iPlanet), and Microsoft Active Directory, the leading LDAP directory servers on the market.

KEY FEATURES

- Streamline user profile maintenance.
- Enhance the user experience.
- Reduce security maintenance costs.

KEY BENEFITS

- Flexible and simple directory mapping tools
- Signon PeopleCode for enhanced security

Free Flow of Information

Directory Interface gives you a flexible and easy way to populate and maintain your directories with data from HRMS. Using PeopleTools integration capabilities, you can easily leverage the data that's already in your HRMS database. Its benefits include:

- Better user experience. With profile information in one centralized location, your users only have to remember a single username and password across all directory enabled applications. Lower security maintenance costs.

- Centralized user profiles reduce maintenance costs and reduce errors because data does not need to be managed in multiple locations. Directory Interface supports multi-server directories out of the box.
- Stronger security. Directory Interface controls access to your enterprise applications by using the LDAP security model.

The screenshot shows the Oracle Directory Interface configuration page for an authentication map named 'HRCS9VM'. The page includes the following sections:

- Map Name:** HRCS9VM, **Status:** Active
- Directory Information:**
 - Directory ID:** HRCS9VM
 - Anonymous Bind, Use Secure Socket Layer
 - Connect DN:** uid=viewer|dc=us,dc=oracle,dc=com
- User Search Information:**
 - Search Base:** ou=psft,ou=People,dc=us,dc=oracle,dc=com
 - Search Scope:** Sub
 - Search Attribute:** uid
 - Search Filter:** (uid=%SignonUserId)
- List of Servers:** A table with columns 'Seqnum' and 'LDAP Server'. It contains one entry: '1 HRCS9VM.US.ORACLE.COM'.

At the bottom of the page, there are buttons for 'Save', 'Return to Search', 'Add', and 'Update/Display'.

Authentication Map

Directory Interface provides the ability to centralize your authentication information and use multiple servers for fault tolerance and load balancing.

- Streamlined business processes. The business events in your HRMS applications trigger the creation or maintenance of user profiles and groups.

Oracle's PeopleSoft Enterprise Application Messaging, our XML messaging technology, drives the flow of data to the directory.

- Open architecture. Directory Interface is supported on all web and application server platforms that Oracle's PeopleSoft Enterprise supports. It works with all leading directory servers.
- Flexibility. Rather than forcing you into a predefined directory structure or schema, Directory Interface allows you to implement or retain the schema that meets your business requirements.

Directory Interface provides directory-mapping tools that simplify directory design changes and support both flat and deep directory schemas.

- Support. We continue to develop and support Directory Interface. You get full upgrade support access across Oracle's PeopleSoft Enterprise releases and rapid adoption of future PeopleTools enhancements within the product.

Your Complete Directory Integration Solution

With comprehensive, flexible features, Directory Interface can jumpstart your company's eBusiness infrastructure. Directory Interface simplifies directory setup and ensures that your organization's data is always in synch.

Key features include:

- Flexible publishing. Directory Interface capitalizes on Oracle's PeopleSoft Enterprise application messaging technology to perform an initial data load from Oracle's PeopleSoft Enterprise applications to the directory server.

You can use the incremental or online publishing feature to update the directory with data that changes as a result of a business event.

- Effective-date capabilities. Directory servers do not normally support historical information. Directory Interface provides effective-date functionality.
- Directory mapping. Maps HRMS data to the directory server.

ORACLE Home | My Work | My Channel Console | All Features

Map Details | DN Details | DN Defaults | **Attribute Details**

Map Name: HR_PERSON Person Mapping

Mandatory									
Attr. Seq. No.	Attribute	Sequence	Use Constant?	Record	Field	Constant Value	Enable Indirect Update		
1	cn	1	<input type="checkbox"/>	DSIDENTICTN	DSUID		<input type="checkbox"/>		
2	sn	1	<input type="checkbox"/>	NAMES	LAST_NAME		<input type="checkbox"/>		

Optional									
Attr. Seq. No.	Attribute	Sequence	Use Constant?	Record	Field Name	Constant Value	Enable Indirect Update		
1	employeeNumber	1	<input type="checkbox"/>	JOB	EMPLID		<input type="checkbox"/>		
2	loginDisabled	1	<input type="checkbox"/>	JOB	EMPL_STATUS		<input type="checkbox"/>		
3	mail	1	<input type="checkbox"/>	NAMES	FIRST_NAME		<input type="checkbox"/>		
3	mail	2	<input checked="" type="checkbox"/>				<input type="checkbox"/>		
3	mail	3	<input type="checkbox"/>	NAMES	LAST_NAME		<input type="checkbox"/>		
3	mail	4	<input checked="" type="checkbox"/>			@	<input type="checkbox"/>		
3	mail	5	<input type="checkbox"/>	JOB	COMPANY		<input type="checkbox"/>		
3	mail	6	<input checked="" type="checkbox"/>			.com	<input type="checkbox"/>		
4	peftuid	1	<input type="checkbox"/>	DSIDENTICTN	DSUID		<input type="checkbox"/>		
5	uid	1	<input type="checkbox"/>	DSIDENTICTN	DSUID		<input type="checkbox"/>		
6	userPassword	1	<input type="checkbox"/>	DSIDENTICTN	EMPLID		<input type="checkbox"/>		

Save | Return to Search | Notify | Add | Update/Deploy

Map Details | DN Details | DN Defaults | Attribute Details

Mapping Data

Directory Interface provides a simple and cost-effective way to map your data from your PeopleSoft Enterprise database to your Directory. The Directory Interface centralizes maintenance of data to a single location. It provides the ability to map multiple pieces of data within the PeopleSoft Enterprise database to a single attribute in the directory and a way of setting directory account properties such as user password or login access.

- Group membership. Changes group membership in the directory server when this change is triggered by a business event in HRMS.
- Directory audit process/reports. Audits data integrity between HRMS and the directory server.

- Directory inquire pages. Builds inquire pages based on data retrieved from the directory.
- Directory schema caching. Retrieves schema information from the directory.
- Enhanced server configuration. Beyond the basic LDAP authentication provided within PeopleTools, Directory Interface supports and updates multiple directories, and configures multiple servers.

Integrated PeopleSoft HRMS Data

Directory Interface draws upon Oracle's PeopleSoft Enterprise internet architecture and the integration technologies of PeopleTools to automate time-consuming profile maintenance tasks.

With PeopleTools you have the flexibility to use the LDAP server of your choice with Directory Interface. Because all of the interfaces between PeopleTools and Directory Interface are written using LDAP, you can use any LDAP version 3-compliant server.

Directory Interface is designed to respond to certain business transactions in HRMS. The following transactions are integration points between Directory Interface and HRMS:

- **Employee Hire**—Directory Interface creates a profile for each employee you hire. Any piece of data that is available in the Oracle's PeopleSoft Enterprise Hire component can be mapped to and stored in the directory.
- **Employee Termination**—when an employee is terminated, data from Oracle's PeopleSoft Enterprise Job component is passed to the directory where the termination is recorded.
- **Mass Reorganization**—Directory Interface supports mass reorganizations that impact the data in your directory.

This reorganization functionality traverses the Directory Information Tree (DIT) from the point of each change. It rebuilds the appropriate branch using the new values.

Enhanced Security

Directory Interface enables you to authenticate users of your HRMS applications. This process relies on specific pieces of PeopleCode, the programming language designed specifically for use with PeopleTools.

Directory Interface executes Signon PeopleCode when a user signs onto an application. The PeopleCode invokes the LDAP Business Interlink, and then authorizes the user against your directory.

When the user is authorized, PeopleCode can additionally retrieve the user's information and settings from the directory to ensure a role-based user experience. You can customize the Signon PeopleCode to accommodate any extended schema you have implemented in your directory.

PRODUCT NAME

PeopleSoft Enterprise Directory Interface

RELATED PRODUCTS

PeopleSoft Enterprise Directory is fully integrated solution that works seamlessly with PeopleSoft HCM. For more information on related applications, refer to product datasheets on the following:

- PeopleSoft Human Resources

Visit [PeopleSoft Information Portal](#) for further updates and announcements on PeopleSoft products

Directory Interface in Action

For an example of Directory Interface at work, consider the New Hire transaction in HRMS. When the HR department hires a new employee, Application Messaging automatically publishes a message with the new employee's information. The LDAP Business Interlinks then creates a new user profile in the directory from the message. The new employee's information is now available to all directory enabled applications—not just PeopleSoft Enterprise applications. The LDAP mapping tool that is included with Directory Interface simplifies data mapping between PeopleSoft Enterprise applications and the LDAP directory, minimizing customizations and impact on the directory.

**CONTACT US**

For more information about PeopleSoft Enterprise Directory Interface, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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