

HP OpenView Select Access

Integration Paper for OpenLDAP 2.1.30 Directory Servers

Software Version: 6.0

for HP-UX, Linux, Solaris, and Windows operating systems



July 2004

© Copyright 2000-2004 Hewlett-Packard Development Company, L.P.

Legal Notices

Warranty *Hewlett-Packard makes no warranty of any kind with regard to this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.*

A copy of the specific warranty terms applicable to your Hewlett-Packard product can be obtained from your local Sales and Service Office.

Restricted Rights Legend Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause in DFARS 252.227-7013.

Hewlett-Packard Company
United States of America

Rights for non-DOD U.S. Government Departments and Agencies are as set forth in FAR 52.227-19(c)(1,2).

Copyright Notices © Copyright 2000-2004 Hewlett-Packard Development Company, L.P.

No part of this document may be copied, reproduced, or translated into another language without the prior written consent of Hewlett-Packard Company. The information contained in this material is subject to change without notice.

HP OpenView Select Access includes software developed by third parties. The software HP OpenView Select Access uses includes:

- The OpenSSL Project for use in the OpenSSL Toolkit.
- Cryptographic software written by Eric Young.
- Cryptographic software developed by The Cryptix Foundation Limited.
- JavaService software from Alexandria Software Consulting.
- Software developed by Claymore Systems, Inc.
- Software developed by the Apache Software Foundation.
- JavaBeans Activation Framework version 1.0.1 © Sun Microsystems, Inc.
- JavaMail, version 1.2 © Sun Microsystems, Inc.
- SoapRMI, Copyright © 2001 Extreme! Lab, Indiana University.
- cURL, Copyright © 2000 Daniel Stenberg.
- Protomatter Syslog, Copyright © 1998-2000 Nate Sammons.
- JClass LiveTable, Copyright © 2002 Sitraka Inc.

For expanded copyright notices, see HP OpenView Select Access's `<install_path>/3rd_party_license` directory.

Trademark Notices

- Intel® and Pentium® are registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
- Java™ is a US trademark of Sun Microsystems, Inc.
- Linux is a U.S. registered trademark of Linus Torvalds.
- Microsoft®, Windows®, and Windows NT® are U.S. registered trademarks of Microsoft Corporation.
- Oracle® is a registered US trademark of Oracle Corporation, Redwood City, California.
- UNIX® is a registered trademark of The Open Group.

Support

Please visit the HP OpenView Select Access web site at:

<http://www.openview.hp.com/products/select/index.html>

There you will find contact information and details about the products, services, and support that HP OpenView Select Access offers.

You can also go directly to the HP OpenView support web site at:

<http://support.openview.hp.com/>

The support site includes:

- Downloadable documentation
- Troubleshooting information
- Patches and updates
- Problem reporting
- Training information
- Support program information
- Security bulletins

contents

The OpenLDAP 2.1.30 Directory Server	3
To install the schema file	4
To create a root DN entry	4
To modify the OpenLDAP schema and access	5
To push the LDIF DN entry into OpenLDAP	6

The OpenLDAP 2.1.30 Directory Server

The OpenLDAP directory server requires manual intervention before the schema uploads correctly. If this is your first time using Select Access with this directory, Table 1 outlines the steps you must perform.

Table 1 Uploading schema changes

Upload task	For details, see
1 Stop the OpenLDAP directory and back up all the contents of your directory before continuing.	OpenLDAP documentation
2 Copy the <code>sa.schema</code> file to OpenLDAP's host computer.	To install the schema file on page 4
3 To activate a password to restrict directory access, you need to create a root DN entry manually. This is because OpenLDAP does not support the dynamic creation of root DNs. Note that you are not adding the entry to the directory with this step. You are only creating the definition for it.	To create a root DN entry on page 4
4 Modify properties in OpenLDAP's configuration file to allow Select Access to read and write to the directory.	To modify the OpenLDAP schema and access on page 5
5 Start the OpenLDAP directory.	OpenLDAP documentation

Table 1 Uploading schema changes

Upload task	For details, see
6 Add the root DN to the directory by running either the <code>ldapadd</code> or <code>slapadd</code> utility from the command line.	To push the LDIF DN entry into OpenLDAP on page 6
7 Check that the server is running and that you have configured it correctly, by running <code>ldapsearch</code> .	OpenLDAP documentation
8 Configure the Select Access Administration server so that it uses the root DN you created.	HP OpenView Select Access 6.0 Installation Guide


To install the schema file


- 1 Contact your sales person to obtain a copy of the file you require. Releases/updates later that Select Access 6.0 will include the schema with the installer. The schema files for this and other directory server integrations are typically saved in the following directory:
`<SA_install_path>/schema/<dir_server>`
- 2 Copy the file to OpenLDAP's schema directory:
`<OpenLDAP_install_path>\schema`

To create a root DN entry

- 1 Do one of the following:
 - **If you are installing and running OpenLDAP for the first time:** With a text editor of your choice, create a new file called `entries.ldif`. Save this file to suitable location for your deployment environment.
 - **If you already have deployed OpenLDAP in your organization:** Open the `entries.ldif` file in a text editor of your choice, from location you last saved it to.
- 2 Ensure the file includes an LDIF-compatible entry for your root domain name. For example:


```
dn: dc=<mycompany>, dc=<com>
dc: <mycompany>
objectClass: top
objectClass: domain
```

 Replace `<mycompany>` and `<com>` with the appropriate domain components of your domain name. Certain domains contain more components than others. For example, `gov`, `edu`, `ca`, and so on, are all components you must add.

 You will need this information to modify the `sldap.conf` file. For details, see the following section.

- 3 Save the changes to this file.

To modify the OpenLDAP schema and access

- 1 Open `sldap.conf`. Depending on your operating system, the default path is:
 - For Unix: `/usr/local/etc/openldap`
 - For Windows: `/openldap`
- 2 Ensure you are already using the following three OpenLDAP schemas.
 - `core.schema`
 - `cosine.schema`
 - `inetorgperson.schema`

All three schemas are required to integrate Select Access with the directory.

- 3 Append Select Access's schema to the end of this list of files used by OpenLDAP. The definition of schema files uses the following syntax:

```
include <path>/<filename>
```

For example, if you copied the schema file to a Unix host, the definition of this file would be:

```
include usr/local/etc/openldap/schema/sa.schema
```

- 4 Configure the suffix, root DN, and password as properties of this file, with the following entries:

```
suffix    "dc=<mycompany>, dc=com"  
rootdn    "cn=Manager, dc=<mycompany>, dc=com"  
rootpw    <manager_password>
```



Remember the rootDN and password you configure. You will need this information to configure the Select Access Administration server.

- 5 Enable read and write access for a Directory Manager by modifying the access directive to state:

```
access to * by <RootDN_UID>
```

This ensures only the directory manager (and those who can use those credentials, have full permissions to modify the contents of OpenLDAP. For details on the access directive's syntax, refer to OpenLDAP's chapter for controlling access: <http://www.openldap.org/doc/admin22/slapdconfig.html#Access%20Control>.

- 6 Due to an OpenLDAP defect, HP recommends that you turn off schema checking with the following line:

```
schemacheck off
```

- 7 Save the changes you made to the `slapd.conf` file.
- 8 To implement these changes, restart your directory server.

To push the LDIF DN entry into OpenLDAP

- 1 Use either the `ldapadd` or `slapadd` command line utility to include a directory entry for this root DN. For detail on how to use these utilities, refer to OpenLDAP's documentation.
- 2 Check that the entry was added correctly with the `ldapsearch` utility. For details, refer to OpenLDAP's documentation.