# Configuring LDAP Connector in Compliant User Provisioning of GRC Access Control (Formerly Virsa Access Enforcer)



# **Applies to:**

SAP GRC Access Control, release 5.x

## **Summary**

When implementing compliant user provisioning in GRC Access Control the system is typically linked to a LDAP repository. This paper outlines the configuration of LDAP connector and provides sample mappings for Active Directory, SunOne, E-Directory, and Tivoli.

Authors: Alpesh Parmar, Aman Chuttani

Company: SAP

Created on: 21 January 2008

#### **Author Bio**

Alpesh Parmar is a principal consultant at Regional Implementation Group (RIG) SAP GRC. He is an expert in GRC Access Control and was instrumental in many successful Access Control ramp-up implementations. Prior to joining RIG he was part of the Access Control development team.

Aman Chuttani works as a consultant in SAP's GRC RIG. He has gained extensive experience supporting SAP's customers in the implementation of SAP GRC Access Control.

© 2008 SAP AG

# **Table of Contents**

Configuring LDAP System for Compliant User Provisioning in GRC Access Control	3
Configuring LDAP Connector	3
Sample Connector Configuration for Different LDAP Types	4
Active Directory:	4
SunOne:	4
Novell's E-Directory:	5
IBM Tivoli:	
Mapping LDAP Fields	6
Sample LDAP Mapping Screenshots for Different Directory Types	7
LDAP Mapping for Microsoft Active Directory	7
LDAP MAPPING for SUNONE	
LDAP Mapping for Novell's E-Directory	
LDAP Mapping for IBM Tivoli	10
Copyright	11

# Configuring LDAP System for Compliant User Provisioning in GRC Access Control

Connectors facilitate the transfer of data between Compliant User Provisioning (formerly Virsa Access Enforcer) and LDAP systems. Compliant User Provisioning (formerly Virsa Access Enforcer) supports different LDAP types. They include:

- Microsoft Active Directory
- SunOne
- Novell E-Directory
- IBM Tivoli

There are two important tasks which are required in order to have a successful communication between the Compliant User Provisioning (formerly Virsa Access Enforcer) and the LDAP systems. These include:

- Configuring an LDAP connector
- Mapping the LDAP fields to Compliant User Provisioning fields

## **Configuring LDAP Connector**

Following is the description of fields in the LDAP connector screen:

Name: Input a name for the LDAP connector. This is a free form text.

**Short Description**: Input text such that it is easily distinguishable from other connectors since the text entered in this field will be displayed in various screens of AE.

**Description**: Input a larger description of the connector if you like.

**Server Name**: Input the server name hosting the LDAP directory. It is better to input the fully qualified name. An IP address will work too.

**Domain**: Input the domain name or the base of the directory. Following two formats are supported. 1. "DC=sap,DC=com", 2. "sap.com"

**Port**: Input the port assigned to the directory server.

User Principal Name: Input the service user Id which will be used to access the directory.

Password: Input password of the service user.

**User Path**: Input the distinguished name of the root directory under which all the users/employees are stored. Please remove the domain components from the distinguished name.

**Group Path**: Leave this field blank. This field is not being used in Compliant User Provisioning (formerly Virsa Access Enforcer).

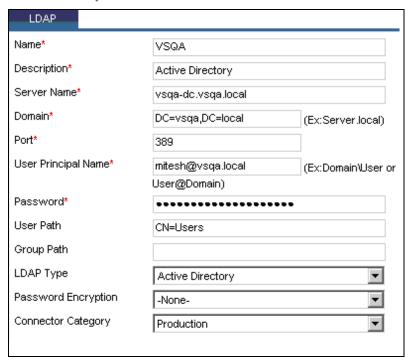
**LDAP Type**: Select the directory type which is being used.

Password Encryption: Select encryption type to be utilized by the LDAP server.

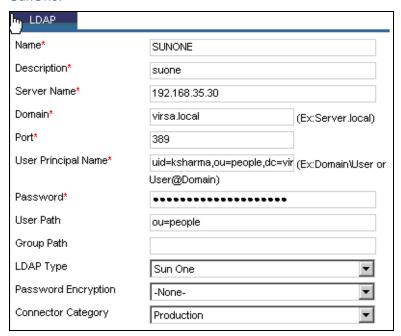
Connection Category: Select Production or Non-Production.

# **Sample Connector Configuration for Different LDAP Types**

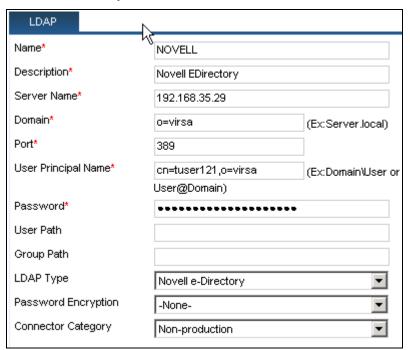
#### Active Directory:



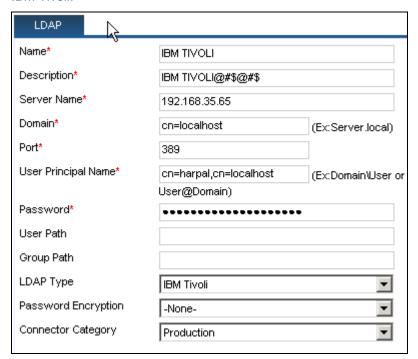
#### SunOne:



## Novell's E-Directory:



#### IBM Tivoli:



## **Mapping LDAP Fields**

The LDAP mapping helps in mapping the fields between Compliant User Provisioning and corresponding LDAP fields (attributes). The field values are accordingly pulled from the LDAP directory and populated in Compliant User Provisioning. Most of the fields in the LDAP mapping screen are self explanatory except for few. Those fields are explained below.

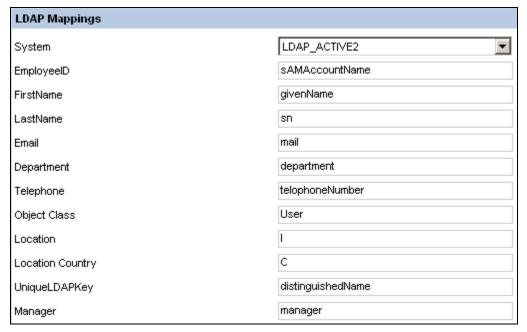
- Object Class
- UniqueLDAPKey

Object Class is the Common-Name (cn) of the object class attribute (or super class) of the users/employees/people.

UniqueLDAPKey is the attribute name which holds the DN of the user/employee/people objects.

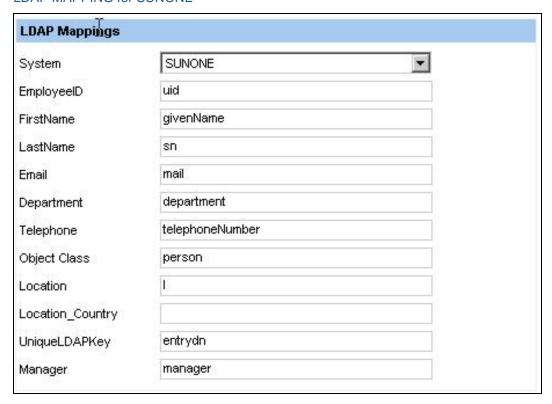
## Sample LDAP Mapping Screenshots for Different Directory Types

#### LDAP Mapping for Microsoft Active Directory



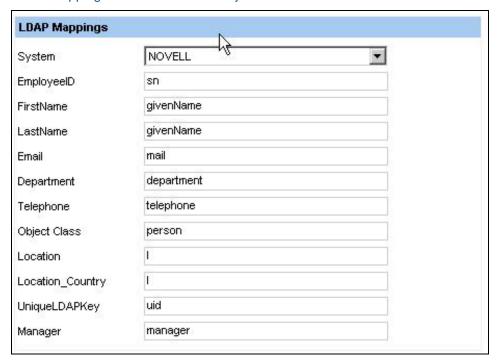
AE Field	LDAP Mapped Field	Description
EmployeeID	sAMAccountName	Default field for account name.
FirstName	givenName	Default field for first name
LastName	Sn	Default field for last name
Email	Mail	Default field for email ID
Department	Department	Default field for department
Telephone	telephoneNumber	Default field for telephone number
ObjectClass	User	Default structure for the user details
Location	L	Default field for base location
Location_Country	С	Default field for country
UniqueLDAPKey	distinguishedName	Unique key in the LDAP system
Manager	Manager	Default field for manager ID

#### LDAP MAPPING for SUNONE



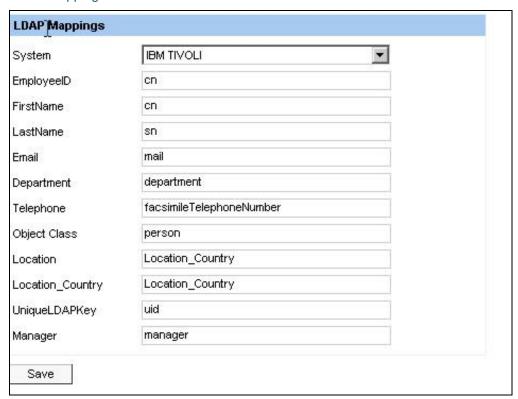
AE Field	LDAP Mapped Field	Description
EmployeeID	Uid	Default field for account name.
FirstName	givenName	Default field for first name
LastName	Sn	Default field for last name
Email	Mail	Default field for email ID
Department	Department	Default field for department
Telephone	telephoneNumber	Default field for telephone number
ObjectClass	Person	Default structure for the user details
Location	L	Default field for base location
Location_Country	С	Default field for country
UniqueLDAPKey	Entrydn	Unique key in the LDAP system
Manager	Manager	Default field for manager ID

# LDAP Mapping for Novell's E-Directory



AE Field	LDAP Mapped Field	Description
EmployeeID	Sn	Default field for account name.
FirstName	GivenName	Default field for first name
LastName	GivenName	Default field for last name
Email	Mail	Default field for email ID
Department	Department	Default field for department
Telephone	Telephone	Default field for telephone number
ObjectClass	User	Default structure for the user details
Location	L	Default field for base location
Location_Country	L	Default field for country
UniqueLDAPKey	Uid	Unique key in the LDAP system
Manager	Manager	Default field for manager ID

# LDAP Mapping for IBM Tivoli



AE Field	LDAP Mapped Field	Description
EmployeeID	Cn	Default field for account name.
FirstName	Sn	Default field for first name
LastName	Sn	Default field for last name
Email	Mail	Default field for email ID
Department	Department	Default field for department
Telephone	facsimileTelephoneNumber	Default field for telephone number
ObjectClass	Person	Default structure for the user details
Location	Location_Country	Default field for base location
Location_Country	Location_Country	Default field for country
UniqueLDAPKey	Uid	Unique key in the LDAP system
Manager	Manager	Default field for manager ID

# Copyright

© Copyright 2008 SAP AG. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, OS/2, Parallel Sysplex, MVS/ESA, AIX, S/390, AS/400, OS/390, OS/400, iSeries, pSeries, xSeries, z/OS, AFP, Intelligent Miner, WebSphere, Netfinity, Tivoli, Informix, i5/OS, POWER, POWER5, OpenPower and PowerPC are trademarks or registered trademarks of IBM Corporation.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Oracle is a registered trademark of Oracle Corporation.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.

JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.

MaxDB is a trademark of MySQL AB, Sweden.

SAP, R/3, mySAP, mySAP.com, xApps, xApp, SAP NetWeaver, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world. All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

These materials are provided "as is" without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement.

SAP shall not be liable for damages of any kind including without limitation direct, special, indirect, or consequential damages that may result from the use of these materials.

SAP does not warrant the accuracy or completeness of the information, text, graphics, links or other items contained within these materials. SAP has no control over the information that you may access through the use of hot links contained in these materials and does not endorse your use of third party web pages nor provide any warranty whatsoever relating to third party web pages.

Any software coding and/or code lines/strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, except if such damages were caused by SAP intentionally or grossly negligent.