

## Integrate eDirectory

EventTracker v7.x

EventTracker 8815 Centre Park Drive Columbia MD 21045 www.eventtracker.com

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#### **Abstract**

eDirectory™ is a full-service, secure LDAP directory providing incredible scalability and an agile platform to run your organization's identity infrastructure and multi-platform network services.

This guide provides instructions to configure eDirectory to send the syslog to EventTracker Enterprise. Once syslog is been configured to send to EventTracker Manager, alerts and reports can be configured into EventTracker.

#### Scope

The configurations detailed in this guide are consistent with **EventTracker Enterprise** version 7.X and later, and **NetIQ eDirectory v8.8 SP7 or later**.

#### **Audience**

Administrators who are responsible for Monitoring NetlQ eDirectory using EventTracker Manager.

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#### eDirectory

Novell® eDirectoryTM is a highly scalable, high-performing, secure directory service. It can store and manage millions of objects, such as users, applications, network devices, and data. Novell eDirectory offers a secure identity management solution that runs across multiple platforms, is internet-scalable, and extensible.

Novell eDirectory provides centralized identity management, infrastructure, Net-wide security, and scalability to all types of applications running behind and beyond the firewall. Novell eDirectory 8.7.3 includes Web-based and wireless management capabilities, allowing you to access and manage the directory and users, access rights, and network resources from a Web browser and a variety of handheld devices.

Novell eDirectory natively supports the directory standard Lightweight Directory Access Protocol (LDAP) 3 and provides support for TLS/SSL services based on the OpenSSL source code

#### Prerequisites

- EventTracker should be installed
- eDirectory v8.8 SP7 should be installed.
- iManager 2.7.7 or later with NetlQ audit plug-in should be installed.

#### Configuring XDAS Events

Use this page to configure XDASv2 events.

- 1. Log in to the iManager console.
- 2. Open iManager from a Web browser, using the following URL:

https://ip\_address\_or\_DNS/nps/iManager.html

where ip\_address\_or\_DNS is the IP address or DNS name of your iManager server.

Example: http://192.168.0.5/nps/iManager.html

3. Log in using your username and password.



In iManager, you have access only to those roles for which you have assigned rights. To have full access to all NetlQ iManager features, you must log in as a user with Admin rights to the tree.

- 4. Select Audit Configuration from Roles and Tasks.
- 5. Specify the name of your eDirectory server in NCP Server.

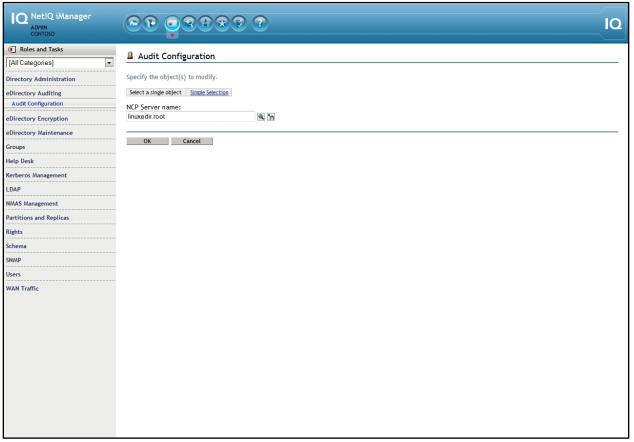


Figure 1

- 6. Click the Object Selector icon to browse for the eDirectory server.
- 7. Click OK.

The XDASv2 Audit page is displayed. Use this page to configure XDASv2 events.



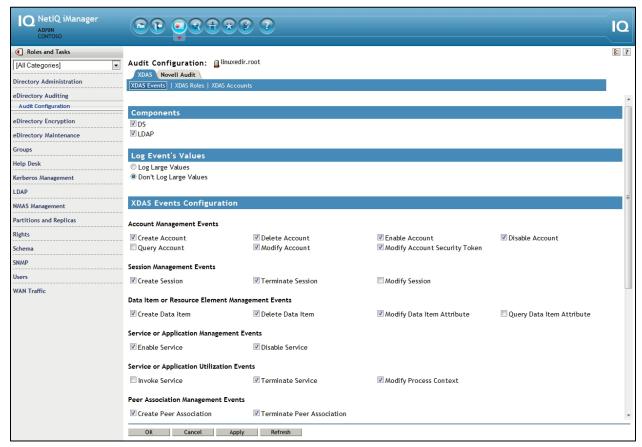


Figure 2

#### 8. Log event values:

The events are logged into a text file. Event values with more than 768 bytes in size are considered 'large values." You can log events of any size.

Log Large Values: Select this option to log events that are more than 768 bytes in size.

Don't **Log Large Values:** Select this option to log events that are less than 768 Byte in size. If the event size is more, the event value is truncated and saved to the log file.

9. You can select both or either of the following components for XDASv2 event settings:

**DS:** Specifies an eDirectory object. For each DS object, a corresponding LDAP object exists.

**LDAP:** Specifies an LDAP object.



#### NOTE

You can select the DS and LDAP components at the granular level for the XDAS events. Based on the event you select, the appropriate components that are supported for that event are selected.

For example, if you select the Delete Account event, the DS and LDAP components are selected.

10. Specify the following events based on your requirements:

Events	Description
Account Management Events	Select the account management events for which you want to log events. You can log events to create, delete, enable, disable, and query accounts, and also to modify account security token.
Session Management Events	Select the session management events for which you want to log events. You can log events to create, terminate, and modify sessions.
Data Item or Resource Element Management Events	Select the data item or resource element management events for which you want to log events. You can log events to create and delete data items and to modify and query data item attributes.
Service or Application Management Events	Select the service or application management events for which you want to log events. You can log events for enabling and disabling services.
Service or Application Utilization Events	Select the service or application utilization events for which you want to log events. You can log events to start and terminate services, and to modify process contexts.
Peer Association Management	Select the peer association events for which you want to log events. You can log events for creating and terminating peer associations.
Events	
Data Item or Resource Element	Select the data item or resource element content access events for which you want to log events. You can log events to create, terminate, and modify data
Content Access Events	item associations.
Role Management Events	Select the role management events for which you want to log events. You can log events to create, delete, query, and modify attributes or objects of eDirectory objects.
Exceptional Management Events	Select the exceptional management events for which you want to log events. You can log events to start and shut down systems and also to back up and recover data stores.
Authentication Management Events	Select the authentication management events for which you want to log events. You can log events to authenticate sessions and create access tokens.
Operational Events	Select the operational management events for which you want to log events. You can log events to generate eDirectory operation IDs.

11. Click **Apply** and then click **OK**.



## Configuring the XDASv2 Property File to send events to EventTracker

When you install eDirectory, the installer lay down the xdasconfig.properties in /etc/opt/novell/eDirectory/conf/ directory. For non-root installations, the XDASv2 property file is located in the conf directory. You can customize the file according to your requirements. To enable the Syslog appender, make the following changes in the xdasxconfig.properties file:

- 1. Change the following entry to S, to attach a Syslog appender:log4j.rootLogger=debug, S
- 2. Uncomment the following entries:
  - log4j.appender. S=org.apache.log4j.net.SyslogAppender
  - log4j.appender.S.Host=localhost (IP address of EventTracker Manager)
  - log4j.appender.S.Port=port (default is 514)
  - log4j.appender.S.Protocol=UDP
  - log4j.appender.S.SSLCertFile=/etc/opt/novell/mycert.pem
  - log4j.appender.S.Threshold=INFO
  - log4j.appender.S.Facility=USER
  - log4j.appender.S.layout=org.apache.log4j.PatternLayout
  - log4j.appender.S.layout.ConversionPattern=%c:%p%m%n



#### **Loading Modules**

After you have configured the XDASv2 events, run the following commands to load the XDASv2 modules:

To automatically load the xdasauditds module whenever the ndsd server is started:

Add xdasauditds to the /etc/opt/novell/eDirectory/conf/ndsmodules.conf file.

To manually load and unload the xdasauditds module:

Linux

To load, run ndstrace -c "load xdasauditds".



# Import eDirectory knowledge pack into EventTracker

- 1. Launch EventTracker Control Panel.
- 2. Double click **ExportImport Utility**, and then click the **Import** tab.

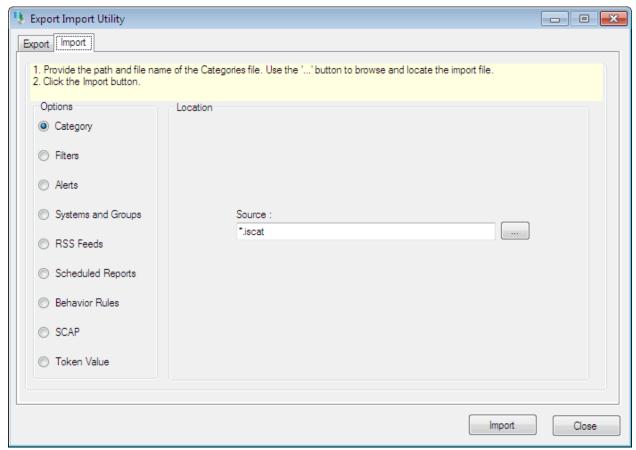


Figure 3



#### **Import Category**

Import Category/Alert as given below.

- 1. Click **Category** option, and then click the **browse** button.
- 2. Locate All eDirectory group of categories.iscat file, and then click the Open button.
- 3. To import categories, click the **Import** button.

EventTracker displays success message.



Figure 4

4. Click **OK**, and then click the **Close** button.

#### **Import Alerts**

- 1. Click **Alert** option, and then click the **browse** button.
- 2. Locate **All eDirectory group of alerts.isalt** file, and then click the **Open** button.
- 3. To import alerts, click the **Import** button.

EventTracker displays success message.



Figure 5

4. Click the **OK** button, and then click the **Close** button.



## Verify eDirectory knowledge pack in EventTracker

#### Verify categories

- 1. Logon to EventTracker Enterprise.
- 2. Click the Admin menu, and then click Categories.
- 3. To view the imported categories, in the **Category Tree**, expand **eDirectory** group folder.

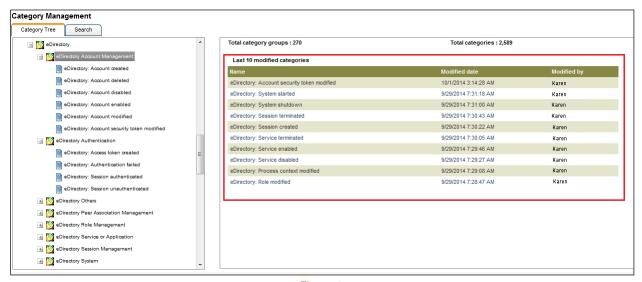


Figure 6

#### Verify alerts

- 1. Logon to EventTracker Enterprise.
- 2. Click the Admin menu, and then click Alerts.
- 3. In the **Search** box, type 'eDirectory', and then click the **Go** button.

Alert Management page will display all the imported alerts.



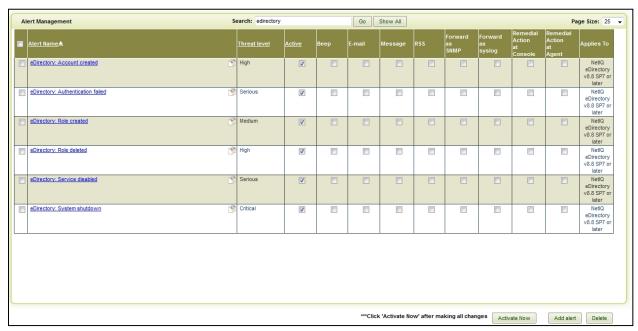


Figure 7

4. To activate the imported alerts, select the respective checkbox in the **Active** column. EventTracker displays message box.



Figure 8

5. Click **OK**, and then click the **Activate Now** button.



### EventTracker Knowledge Pack (KP)

Once logs are received in to EventTracker, Categories and reports can be configured into EventTracker.

The following Knowledge Packs are available in EventTracker v7 to support eDirectory.

- **eDirectory: Account created -** This category based report provides information about created accounts.
- **eDirectory: Account deleted -** This category based report provides information about deleted accounts.
- **eDirectory: Account disabled -** This category based report provides information about disabled accounts.
- **eDirectory: Account disabled -** This category based report provides information about enabled accounts.
- **eDirectory: Account modified:** This category based report provides information related to account modifications
- eDirectory: Account security token modified -This category based report provides information related to account security token has been modified. An account security token may be a password, or any other type of authentication materials associated with a user account.
- **eDirectory:** Access token created This category based report provides information about created access tokens.
- **eDirectory: Authentication failed -** This category based report provides information about user authentication failures.
- **eDirectory: Session authenticated -** This category based report provides information about user authenticated sessions.
- **eDirectory: Session unauthenticated -** This category based report provides information related to exited sessions.
- **eDirectory: Session created -** This category based report provides information related to sessions which has been created.



- **eDirectory: Session terminated -** This category based report provides information related to sessions which has been terminated.
- **eDirectory: Peer association created -** This category based report provides information about to new peer association creations.
- **eDirectory: Peer association destroyed -** This category based report provides information when a existing peer association is destroyed.
- **eDirectory: Role created -** This category based report provides information related to create a new role, or an attempt is made to create a new role.
- **eDirectory: Role deleted -** This category based report provides information when an existing role is deleted, or an attempt is made to delete an existing role.
- **eDirectory: Process context modified** This category based report provides information about if any attributes of a process context are modified this event is somewhat specific to operating systems, but some use can be found in their domain-specific applications.
- **eDirectory: Service disabled -** This category based report provides information related to a service, operation or function which is disabled..
- **eDirectory: Service enabled -** This category based report provides information about a service, operation or function which is enabled..
- **eDirectory: Service terminated -** This category based report provides information about terminated services.
- **eDirectory: Data item association created -** This category based report provides information when rights are granted by an identity to a specific data item when a trust relationship is established between an identity and a data item..
- **eDirectory: Data Item association modified -** This category based report provides information when rights are modified on the previously established relationship between an identity and specific data item.
- **eDirectory: Data Item association terminated -** This category based report provides information when rights are revoked from an identity to a specific data item when a trust relationship is revoked between an identity and a data item.
- **eDirectory: Data item attribute modified -** This category based report provides information about whenever a security-relevant data item or resource element is modified either the value, or an attribute of the data item.
- **eDirectory: Data item created -** This category based report provides information related to whenever a security-relevant data item or resource element is created..



• **eDirectory: Data item deleted -** This category based report provides information whenever a security-relevant data item or resource element is deleted.

#### **Alerts**

- **eDirectory: Account created -** This alert is generated when an account is created.
- **eDirectory: Authentication failed -** This alert is generated when a user authentication failed.
- **eDirectory: Role created -** This alert is generated when create a new role, or an attempt is made to create a new role.
- **eDirectory: Role deleted -** This alert is generated when an existing role is deleted, or an attempt is made to delete an existing role.
- **eDirectory: Service disabled -** This alert is generated when a service, operation or function is disabled.
- **eDirectory: System shutdown -** This alert is generated when a service, operation or function is enabled.

#### Reports

EventTracker provides an exclusive reporting tool to generate requirement specific reports. Below are sample reports created by EventTracker for specific eDirectory logs.



			eDirectory -	Account r	nodifica	ation repo	ort	
LogTime	System Address	Oraganisation						Attribute Value
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Jacob	Language	ENGLISH
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Michael	NGW: Visibility	2
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Angel	NGW: Object ID	shaaz
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	William	NGW: Post Office	CN=SLCPO,OU=Japan,O=ETracker
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Landon	NGW: File ID	bj5
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	James	CONTOSO	admin	Alexander	NGW: GroupWise ID	SLCDOM.SLCPO.shaaz{106}DA20 DC81-071E-0000-A7FA- 2BC603B16349
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Gabriel	nspmPasswordKey	3456106496
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Joshua	Internet EMail Address	shaaz.SLCPO.SLCDOM
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Christopher	modifiersName	CN=admin,O=ETracker
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Elijah	creatorsName	CN=admin,O=ETracker
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Elijah	uniqueID	shaaz
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Daniel	GUID	4137111284278219332
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Benjamin	Obituary	72057598332895231
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	James	Revision	12
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Joshua	Surname	shas
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Gabriel	Public Key	72057594105036800
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	James	CN	shaaz
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Gabriel	EMail Address	BWAAACYAAABZAGGAYQBhAH oALgBTAEWAQWBQAE8ALgBTA EWAQWBEAE8ATQAAAA==
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Joshua	Object Class	User
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Christopher	Object Class	Organizational Person
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Elijah	Object Class	Person
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Elijah	Object Class	ndsLoginProperties
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Daniel	Object Class	Тор
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Benjamin	Private Key	4765231815456868954
11/05/2014 01:06:57 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	James	ACL	Entry ID: .T=CONTOSO., Attribute ID: , Privileges: Attribute Read
11/05/2014 02:30:07 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Joshua	modifiersName	CN=linuxedir,O=ETracker
11/05/2014 02:30:07 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Gabriel	pwdFailureTime	11/04/14 20:34:59
11/05/2014 02:30:07 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	James	modifiersName	CN=linuxedir,O=ETracker
11/05/2014 02:30:31 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Gabriel	modifiersName	CN=linuxedir,O=ETracker
11/05/2014 02:30:31 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Joshua	Login Time	11/04/14 19:06:16
11/05/2014 02:30:31 AM	192.168.1.41	ETracker	ETUSA	CONTOSO	admin	Christopher	Last Login Time	10/31/14 04:25:59

Figure 9

eDirectory-Authentication failure report						
LogTime	System Address	Account Name	Domain Name	Oraganisational Unit	Oraganisation	
11/05/2014 02:30:07 AM	192.168.1.41	Anthony	CONTOSO	PRISMUSA	root	
11/05/2014 02:30:31 AM	192.168.1.41	Jackson	CONTOSO	LONDON	root	
11/05/2014 02:30:31 AM	192.168.1.41	admin	CONTOSO	JAPAN	root	
11/05/2014 06:19:35 AM	192.168.1.41	Michael	CONTOSO	ETUSA	root	

Figure 10

