

Integration Guide for Oracle Database

EventTracker v 9.x and above

Abstract

This guide provides instructions to configure/ retrieve **Oracle database** events using "**Unified Audit Trail**". Once **EventTracker** is configured to collect and parse these logs, dashboard and reports are configured to monitor the **Oracle database**.

Scope

The configurations detailed in this guide are consistent with EventTracker version 9.x or above and **Oracle** database v12c and above.

Audience

Administrators who are assigned the task to monitor **Oracle database unified audit trail** events using EventTracker.

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1. Overview

Oracle Database Service is just one of the Oracle offerings that provide Oracle Database. Users can create databases on DB systems, which are either bare-metal servers or virtual machines with block volumes.

EventTracker, when integrated with the Oracle database, enables users to view critical information related to activities performed in the Oracle database. This information is represented in the form of report, alert and graphical/pictorial representation(dashboard).

In this integration guide, logging of an audit trail in the Oracle database is set using "Unified Audit Trail".

Unified auditing enables you to capture audit records from the following sources:

- Audit records (including SYS audit records) from unified audit policies and AUDIT settings
- Fine-grained audit records from the DBMS FGA PL/SQL package
- Oracle Database Real Application Security audit records
- Oracle Recovery Manager audit records
- Oracle Database Vault audit records
- Oracle Label Security audit records
- Oracle Data Mining records
- Oracle Data Pump
- Oracle SQL*Loader Direct Load

2. Prerequisites

- EventTracker agents should be installed in a host system/ server.
- PowerShell 5.0 should be installed on the host system/ server.
- Users should have administrative privileges on the host system/ server to run PowerShell.
- Read access to the unified audit trail (Login credentials).
- Oracle Wallet, which includes "tnsnames.ora" (includes connection string).

3. Integrating Oracle Database with EventTracker

3.1 Setting Unified Audit Trail

Oracle Database provides predefined unified audit policies that cover commonly used security-relevant audit settings. These policies are not enabled for databases that were upgraded from earlier versions, except if the user had created a new database from the previous release and then upgraded it to the current release.



However, for new databases, these policies are enabled by default for both pure unified auditing environments. Default audit policies:

- 1. ORA LOGON FAILURES
- 2. ORA SECURECONFIG
- 3. ORA DATABASE PARAMETER
- 4. ORA ACCOUNT MGMT
- 5. ORA CIS RECOMMENDATIONS
- 6. ORA RAS POLICY MGMT
- 7. ORA RAS SESSION MGMT
- 8. ORA DV AUDPOL
- 9. ORA DV AUDPOL2

Before setting up a unified audit trail, create a user "EventTracker" and grant the "AUDIT_VIEWER" role to it.

1. Check if Unified auditing is enabled. If yes, unified auditing is enabled.

```
SELECT VALUE FROM V$OPTION WHERE PARAMETER = 'Unified Auditing';

PARAMETER VALUE

-----
Unified Auditing TRUE
```

- 2. If unified auditing has not been enabled, then the output is FALSE. Perform the below steps to enable it:
 - 2.1 Log in to your SQL database. E.g. using SQL*Plus:

```
sqlplus sys as sysdba

Enter password: password
```

- 2.2 Stop all Oracle processes: databases, listener and Enterprise Manager (if necessary):
 - a. Stopping Oracle database:

```
SQL> shutdown immediate

SQL> exit
```

b. Stopping listener service:

\$ lsnrctl stop



c. Stopping Enterprise Manager (if necessary):

```
$ cd /u01/app/oracle/product/middleware/oms
$ export OMS_HOME=/u01/app/oracle/product/middleware/oms
$ $OMS_HOME/bin/emctl stop oms
```

2.3 Relink the oracle binaries to turn pure Unified Auditing on:

```
$ cd $ORACLE_HOME/rdbms/lib
$ make -f ins_rdbms.mk uniaud_on ioracle
```

2.4 Restart all Oracle processes: Enterprise Manager, listener, databases.

```
$ lsnrctl start

$ sqlplus / as sysoper

SQL> startup
```

2.5 Verify:

```
SQL> select VALUE from V$OPTION where PARAMETER='Unified Auditing';

VALUE

TRUE
```

3. Enable a Unified Audit Policy:

The AUDIT POLICY statement can enable a unified audit policy. The following command format is used to enable desired predefined unified audit policy:

```
SQL> AUDIT POLICY { policy_auditing } [WHENEVER [NOT] SUCCESSFUL]

OR

SQL> AUDIT POLICY { policy_auditing }

SQL> AUDIT POLICY ORA_LOGON_FAILURES WHENEVER NOT SUCCESSFUL;
```

To find all existing policies, query the AUDIT_UNIFIED_POLICIES data dictionary view. To find currently enabled policies, query AUDIT UNIFIED ENABLED POLICIES.



e.g.

```
e.g. SQL> select distinct POLICY_NAME from AUDIT_UNIFIED_POLICIES;

SQL> select distinct POLICY_NAME from AUDIT_UNIFIED_ENABLED_POLICIES;
```

(**NOTE** – Please select the oracle audit policy as desired. The above-mentioned default policies are a point of reference.)

3.2 Forwarding Unified audit Logs to EventTracker

Once Unified auditing is enabled in Oracle database,

- 1. Request the EventTracker support team for the "Oracle database Integrator" executable file.
- 2. Once the executable application is received, right-click on the file and select "Run as Administrator".
- 3. Running the Integrator, fill in the given fields.
 - 3.1 Enter the DB "username":

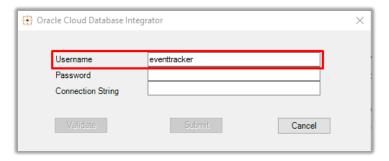


Figure 1

3.2 Enter the DB "password":

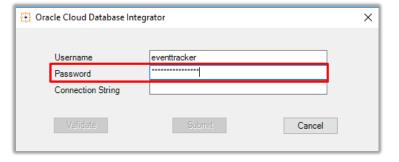


Figure 2

3.3 Enter the "connection string" as mentioned in "tnsnames.ora" file:



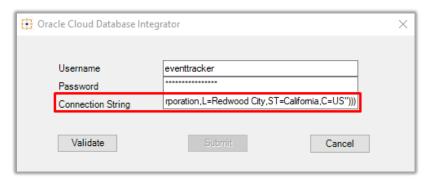


Figure 3

3.4 Now, click on the "validate" button to verify the credentials:

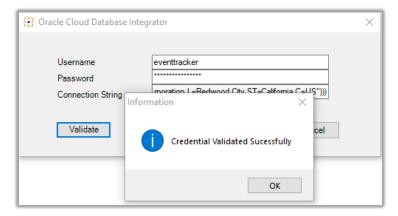


Figure 4

3.5 Click on the "Ok" button and then click on the "submit" button to complete the integration process.

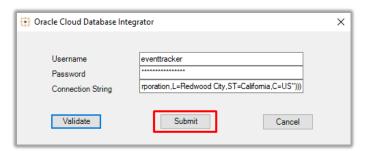


Figure 5



3.3 Verification of Oracle database Integration

If the Integration is successful, the action can be verified in two ways:

1. A scheduled task, named "EventTracker Integrator (Oracle_database)" is created in "Task Scheduler".

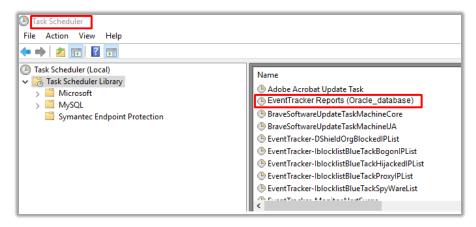


Figure 6

2. A new folder is created in EventTracker agent folder ["C:\Program Files (x86)\Prism Microsystems\EventTracker\Agent"], named "Oracle".

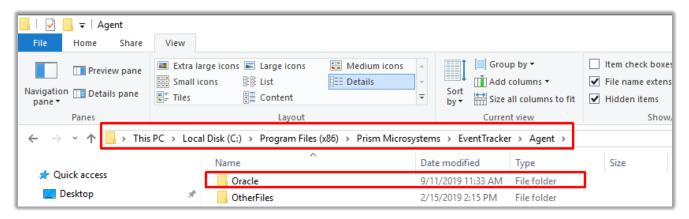


Figure 7



4. EventTracker Knowledge Pack

EventTracker knowledge pack for Oracle database includes:

- 1. Reports.
- 2. Alerts.
- 3. Saved searches.
- 4. Dashboards.
- 5. Behavior rules.

4.1 Reports

1. **Oracle DB user login success activities** - This report captures all the events related to successful oracle database login. The report includes the login time, username, tool/ software used for login, source Ip address, etc.

EVENT TIMESTAMP	USERHOST	OS USERNAME	CLIENT PROGRAM NAME	CURRENT USER	HOST	PROTOCOL	PORT
4/29/2019 6:04:24 PM	DAC5268745	nba2012	SQL Developer	ADW_KCS	105.118.226.185	tcp	12259
4/29/2019 11:31:15 AM	DAC5268746	nba2013	SQL Developer	ADW_KCS	28.165.217.151	tcp	63646
4/30/2019 11:30:36 AM	DAC5268747	nba2014	SQL*Plus	ADW_KCS	72.18.202.154	tcp	89497
4/5/2019 12:34:25 PM	DAC5268748	nba2015	SQL Developer	ADW_KCS	69.63.172.191	tcp	65935
4/30/2019 1:56:26 PM	DAC5268749	BPL2019	SQL Developer	LKJ8765	126.193.161.251	tcp	76432
4/30/2019 1:38:42 PM	DAC5268750	BPL2020	powershell.exe	LKJ8766	110.51.147.218	tcp	44256
4/30/2019 1:38:27 PM	DAC5268751	BPL2021	SQL Developer	LKJ8767	47.229.237.186	tcp	70224
4/30/2019 1:38:18 PM	DAC5268752	BPL2022	SQL*Plus	LKJ8768	82.145.59.210	tcp	97638
4/30/2019 1:32:59 PM	DAC5268753	BPL2023	SQL Developer	LKJ8769	41.110.209.40	tcp	96915
4/30/2019 1:22:17 PM	Karen-MacBook- Pro.local	deku	SQL Developer	RKTFEM	6.176.234.120	tcp	88138
4/30/2019 1:21:37 PM	Karen-MacBook- Pro.local	deku	SQL Developer	RKTFEM2	71.155.56.214	tcp	64179
4/29/2019 6:02:35 PM	DAC5268753	nba2013	SQL Developer	TLC77	125.126.161.66	tcp	75432
4/4/2019 6:44:56 PM	DAC5268754	dbx567	SQL Developer	MKJ467	107.121.142.67	tcp	72003
4/4/2019 1:02:51 PM	DAC5268755	dbx560	SQL*Plus	ADW_KCS	101.88.78.197	tcp	62710
4/4/2019 1:01:50 PM	DAC5268756	dbx587	powershell.exe	BRENDEN.ROUTH@ AAK.AB.EU	31.73.135.3	tcp	79941

Figure 8

 Oracle DB data access activities - Data access events track audited Data Manipulation Language (DML) activities, for example, all SELECT, INSERT, UPDATE, or DROP SQL statements. This report includes the event timestamp, client program name, object name on which action was performed, etc.



EVENT TIMESTAMP		CLIENT PROGRAM NAME	CURRENT USER	ACTION NAME	OBJECT NAME	SQL TEXT	ноѕт	PORT	PROTOCOL	RETURN CODE
7/19/2019 4:34:19 PM	tls- 6.subapp2.vcnjkll09l.ora clevcn.com	JDBC Thin Client	SYS	INSERT	X\$MLKP_PRIV	INSERT INTO SYS.X\$MLKP_PRIV(ACL#, DCB_ORDER#, PRIV#) VALUES(:B3 , :B1 , :B2)	20.8.179.188	36112	tcp	0
7/19/2019 4:34:19 PM	tls- 6.subapp2.vcnjkll09l.ora clevcn.com	JDBC Thin Client	SYS	INSERT	XS\$DBC	INSERT INTO SYS.XS\$DBC VALUES (:B1 ,:B2 ,:B3 ,:B4 ,:B5 ,:B6 ,:B7 ,:B8 ,:B9)	20.8.179.188	36112	tcp	6
8/9/2019 5:30:06 PM	KM-MVP-WIN10-1	SQL Developer	ADMIN	INSERT	TESTTABLE	insert into basecare_dvp.testtable values (7)	124.148.186.159	40017	tcp	0
8/9/2019 5:29:35 PM	KM-MVP-WIN10-1	SQL Developer	ADMIN	INSERT	TESTTABLE	insert into basecare_dvp.testtable values (6)	124.148.186.159	40017	tcp	0
7/19/2019 4:28:33 PM	tls- 5.subapp2.vcnjkll09l.ora clevcn.com	JDBC Thin Client	SYS	DELETE	XS\$DBC	DELETE FROM SYS.XS\$DBC WHERE ACL#=:B1	104.205.192.8	65404	tcp	0
7/19/2019 4:28:33 PM	tls- 5.subapp2.vcnjkll09l.ora clevcn.com	JDBC Thin Client	SYS	DELETE	X\$MLKP_PRIV	DELETE FROM SYS.X\$MLKP_PRIV WHERE ACL#=:C6	104.205.192.8	65404	tcp	0

Figure 9

3. **Oracle database procedure management activities** – Procedure management events include activities related to Oracle database 'Procedures'. The action types are ALTER PROCEDURE, CREATE PROCEDURE and DROP PROCEDURE. This report includes event timestamp, action name, Object name on which action was performed, SQL text entered, etc.

EVENT TIMESTAMP	Computer	CLIENT PROGRAM NAME	OS USERNA ME	CURREN T USER	ACTION NAME	OBJECT NAME	SQL TEXT	HOST	PROTOCOL	RETURN CODE
5/23/2019 8:53:03 AM	ORACLECLOUDDB- TEST3@NTPLDTBL R48			SYS	CREATE PROCEDURE	DEFAULT_CREATE _STOPLIST	CREATE OR REPLACE PROCEDURE default_create_stoplist(stoplistname IN VARCHAR2)			Ó
5/23/2019 8:53:20 AM	ORACLECLOUDDB- TEST3@NTPLDTBL R48			SYS	DROP PROCEDURE	DEFAULT_CREATE _POLICY	drop procedure default_create_policy			6
12/18/2018 5:20:09 AM	ORACLECLOUDDB- TEST3@NTPLDTBL R48	sqlplus@ctrl-4 (TNS V1-V3)	oracle	SYS	ALTER PROCEDURE	LOGMNR_KRVRDR HJSUN4	alter procedure LOGMNR_KRVRDRHJSUN4 compile	192.168.122.1	beq	6
12/18/2018 5:20:08 AM		sqlplus@ctrl-4 (TNS V1-V3)	oracle	SYS	ALTER PROCEDURE	LOGMNR_KRVRHJ SUN4	alter procedure LOGMNR_KRVRHJSUN4 compile	11.113.208.94	beq	6
5/23/2019 8:53:20 AM	ORACLECLOUDDB- TEST3@NTPLDTBL R48			SYS	DROP PROCEDURE	DEFAULT_CREATE _POLICY	drop procedure default_create_policy			Ó

Figure 10

4. **Oracle database user account management activities** – User account management includes Oracle database user account creation, deletion, modification, etc. This report includes event timestamp, Client program name, an action performed, SQL text entered, etc.

EVENT TIMESTAMP	Computer	CLIENT PROGRAM NAME	CURRENT USER	ACTION NAME	OBJECT NAME	SQL TEXT	SYSTEM PRIVILEGE	ноѕт	PROTOCOL	RETURN CODE
11/26/2018 8:15:00 PM	ORACLECLOUDDB- TEST3@NTPLDTBLR48		SYS	ALTER USER	SYSTEM	alter user system account lock	ALTER USER	7.43.87.137	beq	0
8/30/2019 12:20:35 PM	ORACLECLOUDDB- TEST3@NTPLDTBLR48		SYS	ALTER PROFILE	DEFAULT	alter profile default limit failed_login_attempts unlimited	ALTER PROFILE			0
11/26/2018 8:20:39 PM	ORACLECLOUDDB- TEST3@NTPLDTBLR48		SYS	ALTER USER	ADMIN	alter user ADMIN default tablespace DATA quota unlimited on DATA	ALTER USER	192.168.122.1	beq	Ó
11/26/2018 8:23:10 PM	ORACLECLOUDDB- TEST3@NTPLDTBLR48	- 11	SYS	CREATE USER	DDL\$PROXY	create user DDL\$PROXY identified by *	CREATE USER	192.168.122.1	beq	0
11/26/2018 8:22:50 PM	ORACLECLOUDDB- TEST3@NTPLDTBLR48	-44	SYS	CREATE USER	C##DDLOIU	create user C##DDLOIU identified by * default tablespace SYSAUX temporary tablespace TEMP quota unlimited on SYSAUX CONTAINER=ALL	CREATE USER	192.168.122.1	beq	0

Figure 11



5. **Oracle DB user login failed activities** – This report captures all the failed oracle database login attempts. It includes event timestamp, client login name, client program name, client IP address, etc.

USERHOST	OS USERNAME	CLIENT PROGRAM NAME	CURRENT USER	HOST	PROTOCOL	PORT
TAR1003KOP	nbm652	SQL Developer	ADW_TDS	4.190.147.36	tcp	3230
TAR1003KOP	nbm652	SQL Developer	LFM652	57.191.40.76	tcp	66491
TAR1003KOP	nbm652	SQL Developer	ADW_TDS	121.100.190.181	tcp	66454
TAR1003KOP	nbm652	SQL Developer	ADW_TDS	48.162.123.10	tcp	95266
Brenden-MacBook-Pro.local	tkm	SQL Developer	IDM	118.219.106.51	tcp	59232
Brenden-MacBook-Pro.local	tkm	SQL Developer	IDM	80.1.250.86	tcp	64867
TAR1009KOP	CLS2230	SQL Developer	CLS2230	59.73.135.54	tcp	75466

Figure 12

6. **Oracle database syntax error and access rule violation detection** – This report includes invalid SQL syntax or SQL access rule violation related events. The report includes event timestamp, User name, SQL error code, SQL text, etc.

EVENT TIMESTAMP	Computer	CURRENT USER	ACTION NAME	SQL TEXT	RETURN CODE
11/29/2018 5:51:16 AM	ORACLECLOUDDB- TEST3@NTPLDTBLR48			revoke set container from pdb_dba	1952
	ORACLECLOUDDB- TEST3@NTPLDTBLR48			revoke set container from pdb_db2	1952

Figure 13

4.2 Alerts

- Oracle database failed logon has been detected.
- Oracle database syntax error and access rule violation have been detected.
- Oracle Database user login from a new IP address has been detected.
- Oracle Database user login from a new system has been detected.

4.3 Saved searches

- Oracle login failures.
- Oracle login success.
- Oracle database SQL syntax error and access rule violation.
- Oracle database user account management.
- Oracle database data access management.



4.4 Dashboards

• Oracle login failure by user name

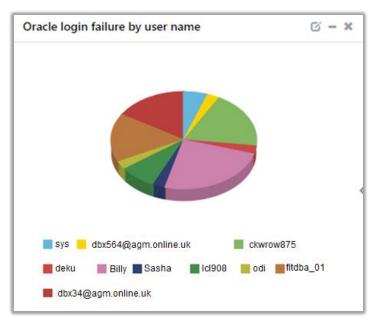


Figure 14

Oracle login failed by region name

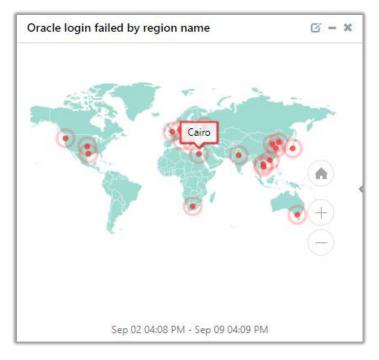


Figure 15



• Oracle login activity by Process

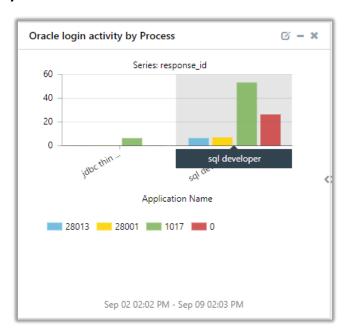


Figure 16

• Top 10 Oracle database actions

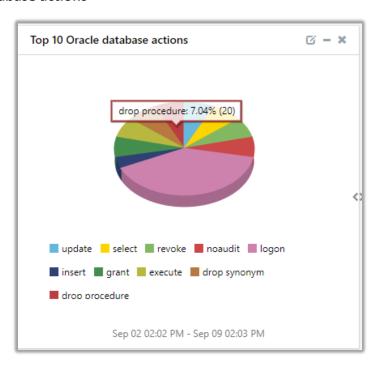


Figure 17



• Oracle database actions by user

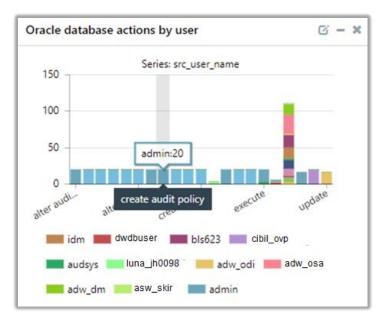


Figure 18

Oracle database new users created

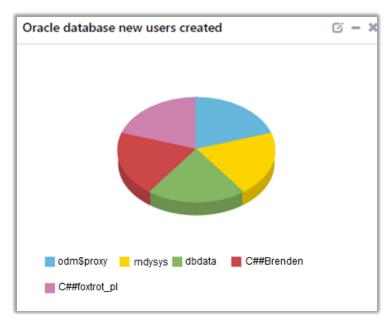


Figure 19

• Oracle database action by permission granted

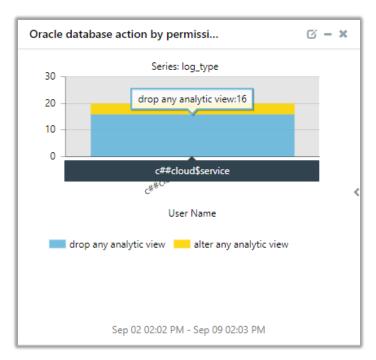


Figure 20

Oracle database changes by user

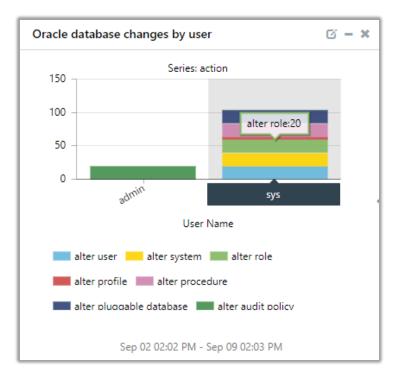


Figure 21



• Oracle database changes in audit policy by user

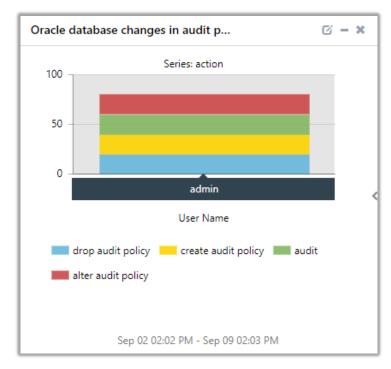


Figure 22

• Oracle database changes in audit policy

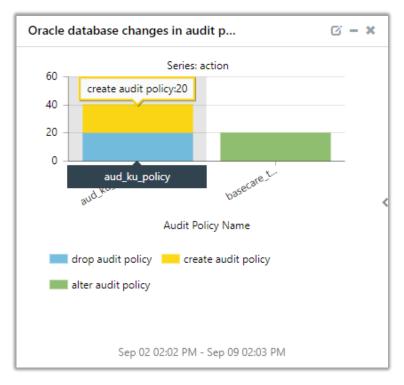


Figure 23



Oracle login success by user name

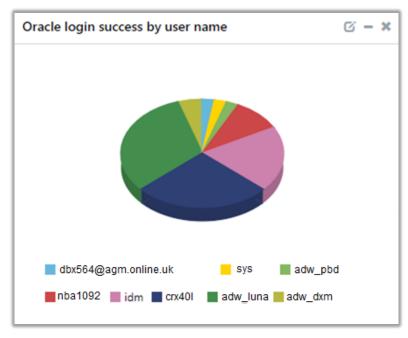


Figure 24

Oracle login success by region name



Figure 25



4.5 Behavior rules

- Oracle Database User login from new IP address.
- Oracle Database User login from new system.

5. Importing knowledge pack into EventTracker

NOTE: Import knowledge pack items in the following sequence:

- Categories
- Alerts
- Token Template/ Parsing Rules
- Flex Reports
- Knowledge Objects
- Dashboards
- 1. Launch the EventTracker Control Panel.
- 2. Double click Export-Import Utility.

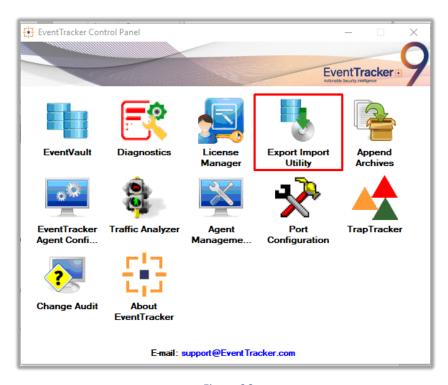


Figure 26

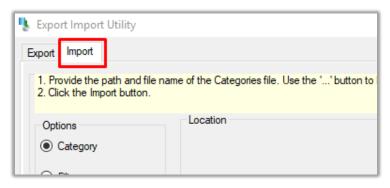


Figure 27

3. Click the **Import** tab.

5.1 Categories

- 1. Once you have opened "Export-Import Utility" via "EventTracker Control Panel", click the Category option, and then click the browse button.
- 2. Navigate to the knowledge pack folder and select the file with the extension ".iscat", e.g. "Categories_Oracle database.iscat" and then click on the "Import" button:

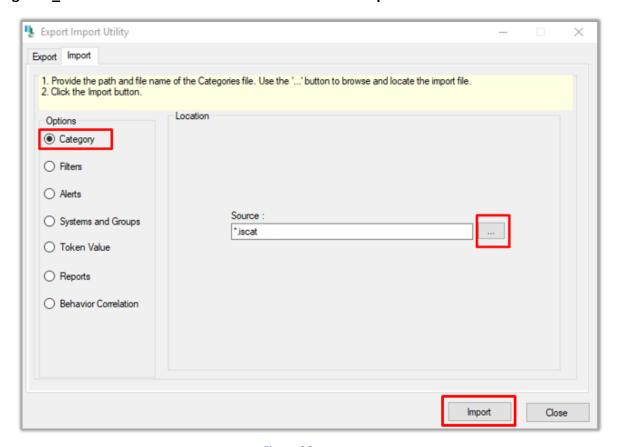


Figure 28



EventTracker displays a success message:

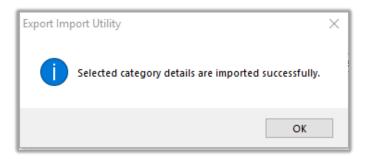


Figure 29

5.2 Alerts

- 1. Once you have opened "Export-Import Utility" via "EventTracker Control Panel", click Alert option, and then click the browse button.
- 2. Navigate to the knowledge pack folder and select the file with the extension ".isalt", e.g. "Alerts_Oracle database.isalt" and then click on the "Import" button:

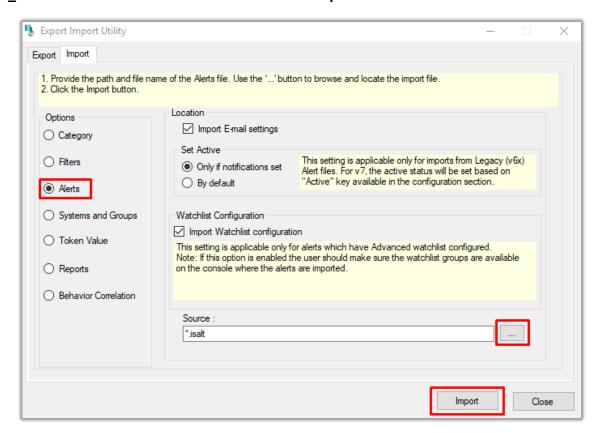


Figure 30

EventTracker displays a success message:



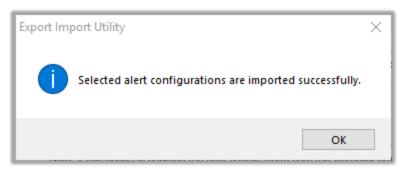


Figure 31

5.3 Parsing Rules

- 1. Once you have opened "Export-Import Utility" via "EventTracker Control Panel", click the "Token Value" option, and then click the browse button.
- 2. Navigate to the knowledge pack folder and select the file with the extension ".istoken", e.g. "Parsing Rules_Oracle database.istoken" and then click on the "Import" button:

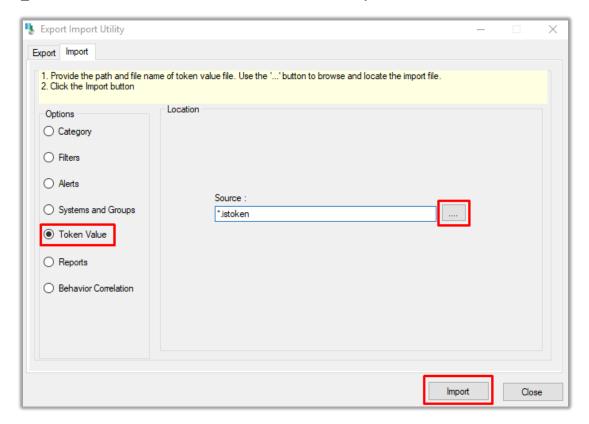


Figure 32



5.4 Flex Reports

1. In the EventTracker control panel, select "Export/ Import utility" and select the "Import tab". Then, click Reports option, and choose "New (*.etcrx)":

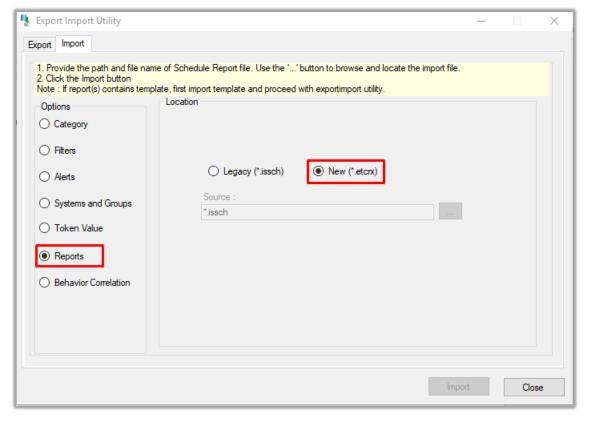


Figure 33

2. Once you have selected "New (*.etcrx)", a new pop-up window will appear. Click the "Select File" button and navigate to the knowledge pack folder and select file with the extension ".etcrx", e.g. "Reports_Oracle database.etcrx".

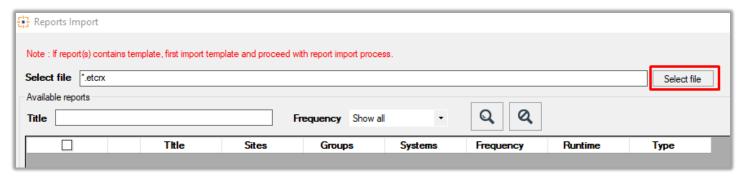


Figure 34



3. Wait while reports are being populated in the below tables. Now, select all the relevant reports and then click the **Import** button.



Figure 35

EventTracker displays a success message:

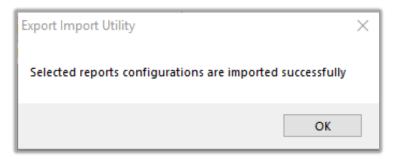


Figure 36

5.5 Knowledge Objects

1. Click **Knowledge objects** under the **Admin** option in the EventTracker manager web interface.

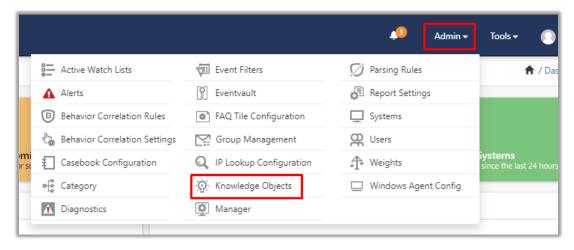


Figure 37

2. Next, click the "import object" icon:



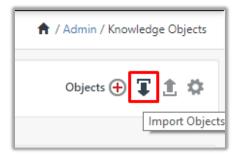


Figure 38

3. A pop-up box will appear, click "Browse" in that and navigate to knowledge packs folder (type "C:\Program Files (x86)\Prism Microsystems\EventTracker\Knowledge Packs" in the navigation bar) with the extension ".etko", e.g. "KO_Oracle database .etko" and then click "Upload" button.



Figure 39

4. Wait while EventTracker populates all the relevant knowledge objects. Once the objects are displayed, select the required ones and click on the "Import" button:



Figure 40

5.6 Dashboards

- 1. Login to the EventTracker manager web interface.
- 2. Navigate to **Dashboard** → **My Dashboard**.
- 3. In "My Dashboard", Click Import Button:



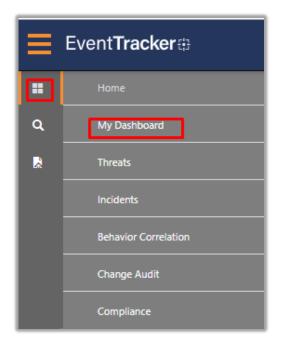


Figure 41

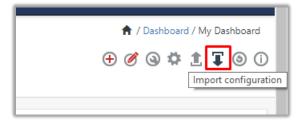


Figure 42

- 4. Select the **browse** button and navigate to the knowledge pack folder (type **"C:\Program Files** (x86)\Prism Microsystems\EventTracker\Knowledge Packs" in the navigation bar) where ".etwd", e.g. "Dashboard_AWS.etwd" is saved and click on "Upload" button.
- 5. Wait while EventTracker populates all the available dashboards. Now, choose "Select All" and click on "Import" Button.

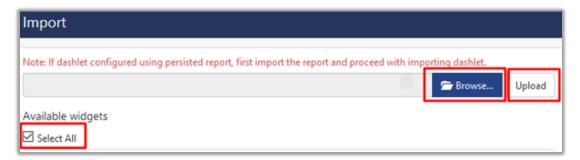


Figure 43





Figure 44

5.7 Behavior rules

- 1. Once you have opened "Export-Import Utility" via "EventTracker Control Panel", click the "Behavior Correlation" option, and then click the browse button.
- 2. Navigate to the knowledge pack folder and select the file with the extension ".isrule", e.g. "Behavior rule_Oracle database.isrule" and then click on the "Import" button:

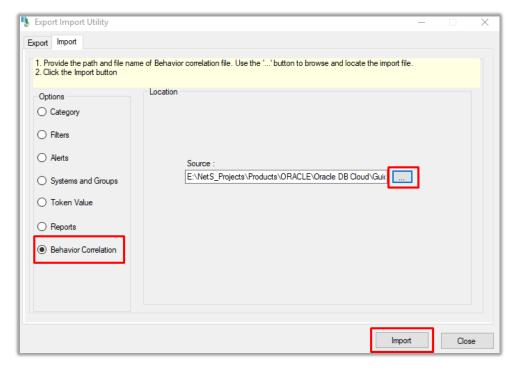


Figure 45



6. Verifying knowledge pack in EventTracker

6.1 Categories

- 1. Login to the EventTracker manager web interface.
- 2. Click Admin dropdown, and then click Categories.
- 3. In **Category Tree** to view imported categories, scroll down and expand **"ORACLE"** group folder to view the imported categories:

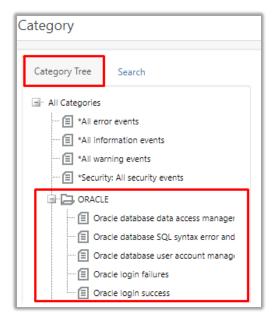


Figure 46

6.2 Alerts

- 1. In the EventTracker manager web interface, click the Admin dropdown, and then click Alerts.
- 2. In search box enter "Oracle" and then click the Search button. EventTracker displays an alert related to the Oracle database:



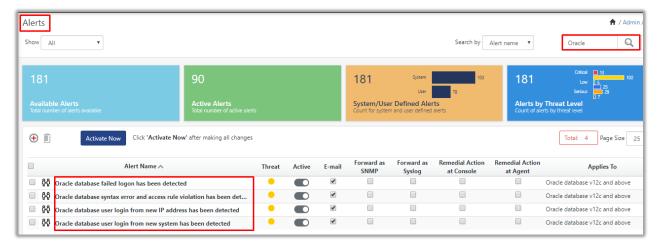


Figure 47

6.3 Parsing Rules

- 1. In the EventTracker web interface, click the Admin dropdown, and then click Parsing Rule.
- 2. In the Parsing Rule tab, click on the "ORACLE" group folder to view the imported Token Values.

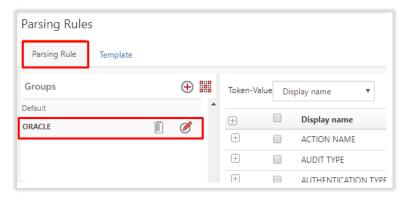


Figure 48

6.4 Flex Reports

1. In the **EventTracker** web interface, click the **Reports** menu, and then select the **Report Configuration**.

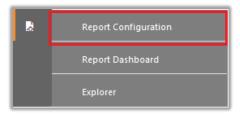


Figure 49

2. In Reports Configuration pane, select the Defined option.



3. Click on the "ORACLE" group folder to view the imported reports.

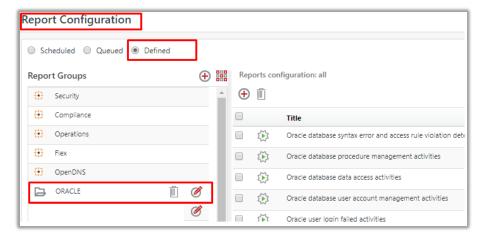


Figure 50

6.5 Knowledge Objects

- 1. In the EventTracker web interface, click the Admin dropdown, and then click Knowledge Objects.
- 2. In the **Knowledge Object** tree, expand the **"ORACLE"** group folder to view the imported Knowledge objects.

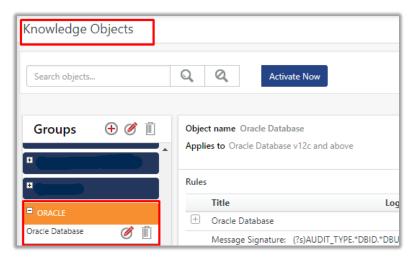


Figure 51

6.6 Dashboards

1. In the EventTracker web interface, Click on Home Button and select "My Dashboard".





Figure 52

2. In "Oracle database" dashboard you should be able to see something like this:

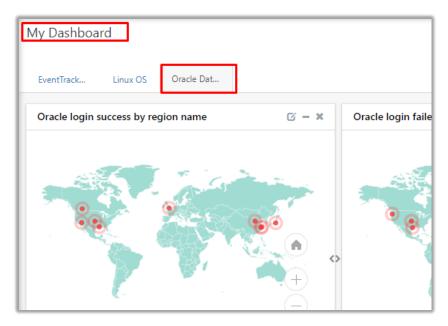


Figure 53

6.7 Behavior rules

- 1. In the **EventTracker** web interface, click the **Admin** dropdown, and then click **Behavior Correlation Rules.**
- 2. Increase the Page size to '50' or '100' and scroll down, you will find the recently imported **Behavior Correlation Rules:**



Figure 54

