

Persistent State Using Clustered Oracle Database

To ensure availability of the persistent state database, you can install a clustered database setup and enable cluster failover handling.

This is available for clustered **Oracle** databases only.

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Concepts

Important services should not hang, if the persistent state database is not available. So, in case the persistent state database becomes inoperative in a clustered setup, it will automatically be replaced by a compensatory database of the cluster.

Steps:

1. **Install Oracle cluster setup**
Before you can enable cluster failover handling, you need to install a clustered setup on your Oracle database.
2. **Enable cluster failover handling**
Enable the failover handling as described below.

Related Pages:

- [Persistent State Components](#)
- [Creating a Component Diagram](#)

Enabling Cluster Failover Handling

You can enable cluster failover handling in the xUML service composite of the persistent state service. It is governed by tagged values:

Tagged Value	Type	Description	Value	Description
Switch Over Enabled	Boolean	This flag enables the automatic fail over mechanism for clustered persistent state databases. If the persistent state database becomes inoperative, the E2E xUML Runtime will try to open a connection to compensatory database of the cluster. See also option Switch Over Retry Timeout .  This option is available for clustered Oracle databases only.	false (default)	failover mechanism not enabled
			true	failover mechanism enabled
Switch Over Retry Timeout	Integer	During fail over, the E2E xUML Runtime will try to create a new database connection to a compensatory database (see Switch Over Enabled). If this fails, the xUML Runtime will try to open a new connection every second until the timeout (in seconds) is reached. Default is 600 seconds .		

Refer to [Persistent State Components](#) for more information on persistent state settings on the composite.