

# Persistent States of xUML Services

Modeling integration scenarios frequently involves asynchronous processes. For example, a purchase order process is initialized by the first order. Then, the user adds new items until the process is closed by receiving the payment and sending the goods to the customer. Such processes are also known as long running transactions. All activities involved in this process may be separated by days or even weeks making it necessary to hold the states of such a purchase order persistent.

The persistent state management of the Bridge involves the following functions:

- Querying the persistent state database by state, creation date / time and update date / time
- Searching the persistent state database for a given primary key
- Viewing persistent state object details
- Deletion of single and multiple persistent state objects
- Management of persistent state ownership
- Management of orphaned persistent state classes

Switch to the **Persistent State** tab in the information/working area of an xUML service using persistent states or deploy a persistent state example. You will find one at the following default location:

**Example File (Builder project Advanced Modeling/PState):**



<your example path>\Advanced Modeling\PState\uml\pstatePurchaseOrder.xml

## Related Pages:

- [Persistent State Classes and Objects of xUML Services](#)
- [Primary Key Search of Persistent State Objects](#)
- [Persistent State Ownership](#)
- [Orphaned Persistent State Classes](#)
- [Stalled Persistent State Objects](#)

All users may view the persistent state information.

The screenshot shows the VScheer IPAS web interface. On the left is a navigation menu with 'Domain' (Users, Groups, Node Instances, Deployment) and 'Node Instances' (xbridge.exe.ch, Proxy Services, xUML Services, Admins, C2E Examples, Interfaces, Services, xbridge2.exe.ch, xbridge3.exe.ch). The 'C2E Examples' item is selected. The main area is titled 'PurchaseOrderExample' and has tabs for xUML Service, Documentation, History, Logging, Dump, Settings, Version, Persistent State, and Status. The 'Persistent State' tab is active, showing 'Persistent State Classes'. Below this is a table with columns 'Class' and 'State Count'. The table contains one row: 'PurchaseOrder.PurchaseOrder' with a state count of '0'. To the right of the table are buttons for 'List All Objects' and 'Primary Key Search'. At the bottom of the table area are buttons for 'View', 'Manage Ownership', and 'Delete All Persistent State Objects'.