Object Store Connector

A [connector](http://tekslate.com/mule-esb-training/) is software that provides a connection between a Mule flow and an external resource. The resource can be any source of content, such a database, protocol, or [API](http://en.wikipedia.org/wiki/Application_programming_interface).

Object Store Connector is a Mule component that allows for simple key-value storage. It is mainly designed for:

* Storing synchronization information such as watermarks
* Storing user information
* Storing temporal information such as access token
* Cache module uses Object store to maintain all cached data
* OAuth module uses Object Store to store the tokens

Two types of Object Store

1. Default Object Store

By default, each Mule app has an Object Store that is persistent and always available to the app without any configuration. Flows can use it to persist and share data.

1. Custom Object Store

Custom Object Stores must specify an object store attribute. These Object Stores can be configured to behave differently than the default Object Store. For example, you can indicate whether the Object Store is persistent (so that the Object Store data survives a Mule Runtime crash) or transient (where data does not survive a Mule Runtime crash)

Methods Available in Object Store Connector

* Clear: Clear all the objects stored in the object store
* Contains: Return true if an object is stored in the object store
* Retrieve All: It retrieve all the key-value pairs in the object store
* Remove: It removes the object from the object store. It will return the object, which was stored previously for the key.
* Retrieve: Retrieves an object from the object store and copies the retrieved value into the specified property scope of a Mule message.
* Retrieve All Keys: It will retrieve all keys present in that object store. It returns the java.util.List<String> with all the keys in the store.
* Store: It stores an object in the object store for the specified key

The three type of Object Store are Anypoint Object Store V2, CloudHub Object Store V1, Mule Object Store.  
  
Anypoint Object Store V2 and CloudHub Object Store V1 are CloudHub deployments exclusive. Mule Object Store can be used in Hybrid On Premise, Runtime Fabric or CloudHub.

https://apisero.com/cache-scope-and-object-store-in-mule-4/