

sample schema for an **Oracle SOA Coherence Adapter**

This is used to integrate Oracle Coherence with SOA Suite. The schema defines the structure of the Coherence adapter's XML configuration, including connection details, cache mappings, and adapter-specific properties.

Sample Oracle SOA Coherence Adapter Schema (XSD)

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    targetNamespace="http://xmlns.oracle.com/soa/coherence-adapter"
    xmlns:tns="http://xmlns.oracle.com/soa/coherence-adapter"
    elementFormDefault="qualified">

    <!-- Root Element -->

    <xs:element name="CoherenceAdapterConfig" type="tns:CoherenceAdapterType"/>

    <!-- Coherence Adapter Type -->

    <xs:complexType name="CoherenceAdapterType">
        <xs:sequence>
            <xs:element name="ConnectionFactory" type="tns:ConnectionFactoryType"/>
            <xs:element name="CacheMapping" type="tns:CacheMappingType" minOccurs="1"
maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>

    <!-- Connection Factory Configuration -->

    <xs:complexType name="ConnectionFactoryType">
        <xs:sequence>
            <xs:element name="CoherenceClusterName" type="xs:string"/>
            <xs:element name="CoherenceCacheName" type="xs:string"/>
            <xs:element name="CoherenceServiceName" type="xs:string" minOccurs="0"/>
            <xs:element name="CoherenceHost" type="xs:string" minOccurs="0"/>
            <xs:element name="CoherencePort" type="xs:int" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:schema>
```

```

    </xs:sequence>
</xs:complexType>

<!-- Cache Mapping Configuration -->
<xs:complexType name="CacheMappingType">
  <xs:sequence>
    <xs:element name="BusinessObject" type="xs:string"/>
    <xs:element name="CacheName" type="xs:string"/>
    <xs:element name="Operation" type="tns:OperationType"/>
  </xs:sequence>
</xs:complexType>

<!-- Operations Type -->
<xs:simpleType name="OperationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="PUT"/>
    <xs:enumeration value="GET"/>
    <xs:enumeration value="REMOVE"/>
    <xs:enumeration value="UPDATE"/>
  </xs:restriction>
</xs:simpleType>

```

```
</xs:schema>
```

Example XML Configuration Using This Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<CoherenceAdapterConfig xmlns="http://xmlns.oracle.com/soa/coherence-adapter">

  <ConnectionFactory>

    <CoherenceClusterName>MyCluster</CoherenceClusterName>

    <CoherenceCacheName>MyCache</CoherenceCacheName>

    <CoherenceServiceName>MyService</CoherenceServiceName>

```

```

    <CoherenceHost>localhost</CoherenceHost>

    <CoherencePort>8088</CoherencePort>
</ConnectionFactory>

<CacheMapping>
    <BusinessObject>Customer</BusinessObject>
    <CacheName>CustomerCache</CacheName>
    <Operation>PUT</Operation>
</CacheMapping>

<CacheMapping>
    <BusinessObject>Order</BusinessObject>
    <CacheName>OrderCache</CacheName>
    <Operation>GET</Operation>
</CacheMapping>

</CoherenceAdapterConfig>

```

Explanation of Elements

- **ConnectionFactory:** Defines the Coherence cluster details.
 - CoherenceClusterName: The name of the Coherence cluster.
 - CoherenceCacheName: The cache name where objects will be stored.
 - CoherenceServiceName: Optional service name in Coherence.
 - CoherenceHost: The hostname where Coherence is running.
 - CoherencePort: The port for Coherence connectivity.
- **CacheMapping:** Defines how business objects map to Coherence caches.
 - BusinessObject: The name of the business object being mapped.
 - CacheName: The Coherence cache name.
 - Operation: Specifies the operation (PUT, GET, REMOVE, UPDATE).

This schema and sample XML provide a structured way to configure an Oracle SOA Coherence Adapter for integrating with Oracle Coherence caches.