

Creating Records in MDM using Java 2 API



Applies to:

SAP MDM Java 2 API

Summary

This tutorial demonstrates how to create records in MDM repository using the Java 2 APIs.

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Creating Records in MDM using Java 2 API

For creating a record in MDM using Java 2 API, we need to create a connection object followed by a user session in which we will create the new record. After obtaining the user session we create a CreateRecordCommand object and a blank record to which we assign values.

Steps to be followed for creating a record:

1. Create a Connection and set the repository identifier

```

ConnectionPool connections = null;
connections = ConnectionPoolFactory.getInstance(serverName);

RepositoryIdentifier reposId =
    new RepositoryIdentifier(repositoryName, dbName, DBMSType.ORACLE);
setRepositoryIdentifier(reposId);

//Fetching the regions from repository
GetRepositoryRegionListCommand regionList =
    new GetRepositoryRegionListCommand(connections);
regionList.setRepositoryIdentifier(reposId);
try {
    regionList.execute();
} catch (Exception e) {
    e.printStackTrace();
}

```

2. Create & Authenticate the User Session

```

CreateUserSessionCommand userSessionCommand =
    new CreateUserSessionCommand(connections);

userSessionCommand.setRepositoryIdentifier(reposId);

RegionProperties dataRegion = new RegionProperties();

// Set the Data Region
dataRegion.setRegionCode("engUSA");
// Set the Locale on data region
dataRegion.setLocale(new Locale("en", "US"));
// Set the name of data region
dataRegion.setName("US");

userSessionCommand.setDataRegion(dataRegion);
try {
    userSessionCommand.execute();
} catch (CommandException e) {
    e.printStackTrace();
}

```

```
// Authenticate the user session
AuthenticateUserSessionCommand userAuthCommand =
    new AuthenticateUserSessionCommand(connections);
userAuthCommand.setSession(sessionId);
userAuthCommand.setUsername(userName);
userAuthCommand.setUserPassword(userPassword);
```

3. Execute the User Session Command

```
try {
    userAuthCommand.execute();
} catch (CommandException e) {
    e.printStackTrace();
}
```

4. Create a CreateRecordCommand object by passing the ConnectionAcessor object:

```
CreateRecordCommand createRecordCommand =
    new CreateRecordCommand(connections);
```

5. Create an empty Record

```
Record r1 = RecordFactory.
    createEmptyRecord(new TableId(tableId));
```

6. Set the fieldIds and Field Values

```
FieldId fld1, fld2;

fld1 = new FieldId(fieldId1);
fld2 = new FieldId(fieldId2);

r1.setFieldValue(fld1, new StringValue("Arafat1"));
r1.setFieldValue(fld2, new StringValue("Arafat2"));
```

7. Set the Session Id & Record

```
createRecordCommand.setSession(userSessionId);
createRecordCommand.setRecord(r1);
```

8. Execute the createRecordCommand

```
try {
    createRecordCommand.execute();
} catch (CommandException e2) {
    // TODO Auto-generated catch block
    e2.printStackTrace();
}
```

Below screenshot shows the actual MDM record that we created above.

MDM ID	4
GPID	
Supplier / Customer	
Account group	
Search Term 1	
Search Term 2	
Title	
First Name	Arafat1
Last Name	Arafat2

Note: We have assigned values to only two fields while creating the new record.

Related Content

[MDM Java API 2 an introductive series part IV](#)

[Central Master-Data Management](#)

[How to work with Command in the new MDM Java API](#)

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