**Identifying an Archive Link**

The following changes will be made to identify an Archive Link:

1. **DB COLUMNS**

A new DB Column will added to Table: HPC\_S3\_ARCHIVE\_CONFIGURATION

New DB Column:

|  |  |
| --- | --- |
| EXTERNAL\_STORAGE | This is a Boolean field which indicates that the storage is external(set to True) or internal(set to False). |

The corresponding SQL will be:

**ALTER** **TABLE** HPC\_S3\_ARCHIVE\_CONFIGURATION **add** (

EXTERNAL\_STORAGE **CHAR** **default** '0'

);

COMMENT **ON** **COLUMN** HPC\_S3\_ARCHIVE\_CONFIGURATION.EXTERNAL\_STORAGE **IS** 'Indicator if the data is stored externally or internally within DME';

1. **Internal Data Structure changes**:

|  |  |
| --- | --- |
| DB Table Name | Corresponding internal structure |
| HPC\_S3\_ARCHIVE\_CONFIGURATION | HpcDataTransferConfiguration |

The new attribute will be added to the HpcDataTransferConfiguration structure corresponding to the DB Fields.

In the file hpc-domain-model/--/HpcDataManagement.xsd, the new field will be added to HpcDataTransferConfiguration:

<xsd:complexType name="HpcDataTransferConfiguration">

<xsd:sequence>

…

xsd:element name="externalStorage" type="xsd:boolean" />

…

</xsd:sequence>

</xsd:complexType>

1. **Populating the internal Data Structure**:

The DAO Record for DataTransferConfiguration is read from the DB in the following file: hpc-dao-impl/…/dao/oracle/impl/HpcDataManagementConfigurationDAOImpl.java

Code to populate the new field in the HpcDataTransferConfiguration data structure:

**private** RowMapper<HpcDataTransferConfiguration> dataTransferConfigurationRowMapper = (rs, rowNum) -> {

// Map the S3 Configuration.

HpcDataTransferConfiguration s3Configuration = **new** HpcDataTransferConfiguration();

…

s3Configuration.setExternalStorage(rs.getBoolean("EXTERNAL\_STORAGE"));

1. **Identifying the Archive Link in the In the DataManagement BUS layer**:

The deleteDataObject method needs to identify the Archive link. It will use the new field in the S3ArchiveConfiguration structure:

// Find if the storage is external using the S3ArchiveConfiguration structure

**boolean** externalStorage = dataManagementService

.getS3ArchiveConfiguration(systemGeneratedMetadata.getS3ArchiveConfigurationId()).getExternalStorage();

**boolean** archiveLink = externalStorage ? **true** : **false**;