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Data fix procedure

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A data fix is an SQL script which changes customer data in order to correct a specific problem. Typically the problem cannot be corrected by changing the application code. Below is the procedure to follow when a data fix is required.

Create

Write the Data Fix and save it in as .sql file containing the Jira number as the file name

 Use the data fix template at <https://stbeehive.oracle.com/content/dam/st/Brand%20Compliance%20Management%20-%20Development%20-Technical/Documents/Data%20Fix%20Scripts/DATAFIX.sql>

Risk (Low/Medium/High)

If your script is updating a known value to another known value, it's low risk. If the where clause is such that your update can affect records you've not tested against, put at least medium. Put High if a particularly large number of records are affected.

Backup Required

If you can't guarantee to be able to put records/tables back to the state they were in before the update, the specify YES to backup required. In theory, if the AMS engineer doesn't commit, backup isn't necessary, but it relies on human actions. A backup covers us.

Restart Required

This is governed by whether the item/s updated are cached and a restart is required to pick up your changes. If in doubt, always say YES to this one.

Please make sure (when possible) to fill the Prerequisites so we are sure to run the Data Fix on the correct data. Fill also the Verification that should be a query similar to the Prerequisite. Update should contain a query that matches the prerequisites / verification.

Please see below examples of Prerequisites, Update and Verification:

```
-- Prerequisites here
select count(al.c_id) from t_allreasdclr al
inner join t_spcsecdet sd on sd.c_specdetid = al.fk_suitablefor
inner join t_prdspc ps on sd.fk_prdspc = ps.c_id
where sd.c_sec_type = "FAD" and ps.c_spec_number=111210 and ps.c_spec_version=1 and al.c_reaso
-- Continue if the query count above returns >0
```

```
-- Proposed change here
update t_allreasdclr al
inner join t_spcsecdet sd on sd.c_specdetid = al.fk_suitablefor
inner join t_prdspc ps on sd.fk_prdspc = ps.c_id
set al.c_reason="."
where sd.c_sec_type = "FAD" and ps.c_spec_number=111210 and ps.c_spec_version=1 and al.c_reaso

-- Verification here
select count(al.c_id) from t_allreasdclr al
inner join t_spcsecdet sd on sd.c_specdetid = al.fk_suitablefor
inner join t_prdspc ps on sd.fk_prdspc = ps.c_id
where sd.c_sec_type = "FAD" and ps.c_spec_number=111210 and ps.c_spec_version=1 and al.c_reaso
-- The datafix has been successful if the query returns 0
```

Test

Test the data fix by running mysql in a terminal as shown in the abbreviated example below. After the script has run you would use 'commit' if the fix has worked correctly or 'rollback'.

```
$ mysql -A
Welcome to the MySQL monitor.
...
mysql> use <schema-name>;
Database changed
mysql> source ~/ORBCM-1234.sql
...
mysql> commit;
mysql> set autocommit=1;

mysql> quit;
Bye
```

Obtain approval

Send the file in an email to one of the Architects asking them to review it

Data fix approved

Once the data fix has been approved.

1. Add the Data Fix to the SFTP server (/internal/ohrc/Retail/ORBC/Customer Name/DataFixes/ORBCM-XXXX) and run the virus scan:
How to run a virus scan on the SFTP server
2. Get the result of the virus and put them in the following Beehive folder
<https://stbeehive.oracle.com/teamcollab/library/st/Brand+Compliance+Management+-+Maintenance+Planning/Documents/Malware+Scans/300.+Data+Fixes>

3. Back up the Data Fix in the following Beehive folder
<https://stbeehive.oracle.com/teamcollab/library/st/Brand+Compliance+-+Release+Management/Documents/500.+DataFix+Archive>
4. Email the CSM (adding Karen and Simon on CC) saying that the Data Fix is ready and provide the path to the file on beehive
5. Edit the Jira issue and change the workflow to 66.

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