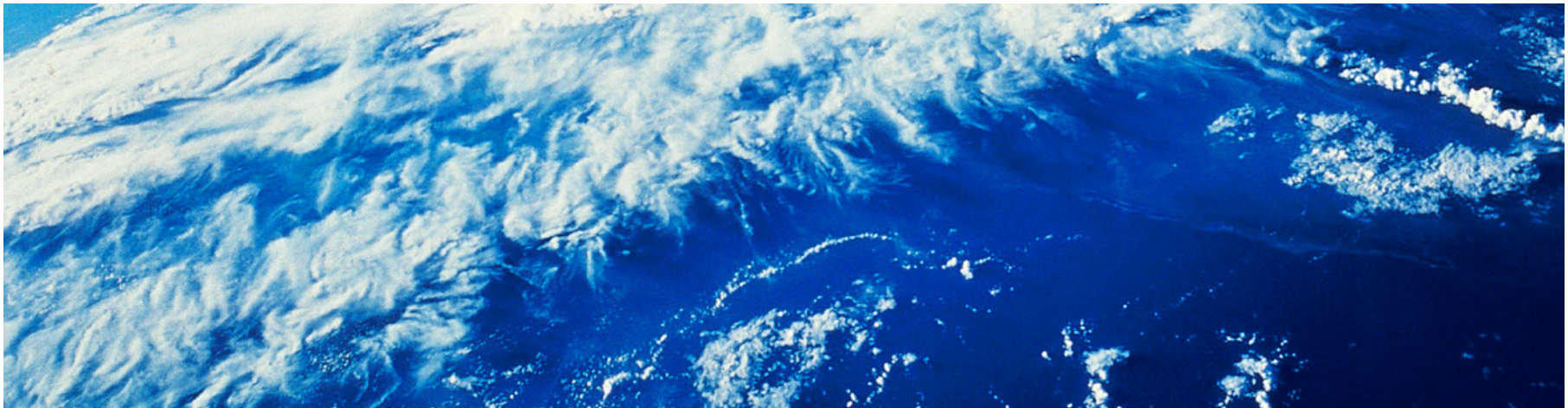


# IBM WebSphere Commerce V7 FEP8

Data Load Update Mode For Catalog Entry And Description



Addy Leung

# Agenda

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# Introduction

## **Update Mode**

Data Load support 3 modes since V7 GA:

- Insert
- Delete
- Replace

In V7 FEP 8, Data Load for Catalog Entry table and Catalog Entry Description table now supports

- Update

The same support is available for CMC Catalog Upload.

## **Column Exclusion List Enhancement**

Since V7 GA, Data Load has the ability to exclude some database columns by creating specific Data Load configuration. However, the list is excluded from both updating and inserting.

In V7 FEP8, this feature is enhanced such that whether data insertion is allowed is configurable. This feature is supported for all existing OOTB business objects.

# Update Mode vs Replace Mode

## Update Mode

- Only works for JDBCDataWriter, does not work for NativeDBDataWriter  
`<_config:DataWriter  
className="com.ibm.commerce.foundation.dataload.datawriter.JDBCDataWriter" />`
- Not every piece of data needed for the update, if they are missing from input they will remain the same.

## Replace Mode

- Works for both JDBCDataWriter and NativeDBDataWriter
- Every piece of data needed for the replace, if they are missing from the input they will be wiped out.

# Data Load Configuration

To enable Update Mode, in Data Load configuration file, e.g.

<WCS>W:\WCDE\_INT70\samples\DataLoad\Catalog\CatalogEntryUpdate\wc-dataload-catalog-entry-update.xml and wc-dataload-catalog-entry-description-update.xml

## Option 1: Update the LoadOrder that applicable to all

```
<_config:LoadOrder commitCount="100" batchSize="1" dataLoadMode="Update" >
```

...

## Option 2: Update the LoadItem that applicable to only the item

```
<_config:LoadItem name="CatalogEntryUpdate" loadSequence="3.1" dataLoadMode="Update"  
businessObjectConfigFile="wc-loader-catalog-entry-update.xml">
```

...

# CMC Catalog Upload Configuration

To enable Update Mode, in the Catalog configuration file, e.g.

<WCToolkit>\workspace\WC\xml\config\com.ibm.commerce.catalog\dataload\wc-dataload.xml

```
<_config:LoadItem name="CatalogEntryUpdate" loadSequence="3.1" dataLoadMode="Update"
businessObjectConfigFile="wc-loader-catalog-entry-update.xml">
    <_config:DataSourceLocation location="${CatalogEntryUpdate}" />
</_config:LoadItem>

<_config:LoadItem name="CatalogEntryDescriptionUpdate" loadSequence="3.5"
dataLoadMode="Update" businessObjectConfigFile="wc-loader-catalog-entry-description-update.xml" >
    <_config:DataSourceLocation location="${CatalogEntryDescriptionUpdate}" />
</_config:LoadItem>
```

# How Update Mode Works

- If all data are the same then this update will be skipped
- If different, then the data will be merged.
  - Column value from the new input data will be used.
  - If column value is missing from the new input data, the value from the database will be used

# Column Exclusion List Enhancement

To use Column Exclusion List, IT users are required to create specific Data Load configuration and to know which database tables which columns are involved.

For example, in <WCS> \samples\DataLoad\Catalog\AttributeDictionaryAttribute\wc-loader-AD-attribute-and-allowed-values.xml

```
<_config:ColumnExclusionList>  
  <_config:table name="ATTR" columns="FACETABLE" />  
</_config:ColumnExclusionList>
```

In V7 FEP8, it is enhanced to support including these excluded columns during Data Load data insertion. A new flag, **forUpdateOnly**, is introduced. It's default value is false, meaning the excluded columns will not be included during insert.



# Data Load Configuration

Example 1:

```
<_config:ColumnExclusionList>  
  <_config:table name="ATTR" columns="SEARCHABLE, FACETABLE"  
forUpdateOnly="true" />  
</_config:ColumnExclusionList>
```

Both SEARCHABLE and FACETABLE columns will be included during insert.

Example 2:

```
<_config:ColumnExclusionList>  
  <_config:table name="ATTR" columns="SEARCHABLE, FACETABLE,  
MERCHANDISABLE" forUpdateOnly="true, false" />  
</_config:ColumnExclusionList>
```

Only SEARCHABLE column will be included during insert. This is the same as “true, false, false”.

# Performance

## **Update Mode**

Update mode requires extra database lookup for each update. It maybe slower than Replace mode.

The performance will not be impacted if all data are new and Data Load will only do Inserts.

Use Update Mode when

- The input file is large with a lot of unchanged data columns in Catalog Entry or Catalog Entry Descriptions

## **Column Exclusion List forUpdateOnly**

Minimal or no performance impact to the forUpdateOnly flag in the Column Exclusion List.

# Troubleshooting

## Trace

Same as always, update the dataload logging.properties,

-Dcom.ibm.commerce.foundation.level=ALL

-Dcom.ibm.commerce.catalog.level=ALL

## Links

[Catalog entry update load](#)

[Configuring a column exclusion list](#)

Thank You!

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