

Retek® Data Warehouse 10.2



Migration Guide



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- Screen shots of each step you take.

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Chapter 1 – Overview

Below are the necessary steps to migrate from RDW 10.1 to 10.2. If an upgrade from RDW 10.0 is necessary, implement the steps listed in the RDW 10.1 migration guide before beginning the migration to RDW 10.2. Review and make sure you understand the process before beginning this migration.

While we have provided scripts to change the tables into the new structure, clients are responsible for ensuring that the scripts retain data in a manner appropriate for their own environment. *A fresh install is highly recommended if you have no data to convert.*

Note: Due to the volume of your data to convert, Retek recommends that the scripts be tested with a limited amount of data before production data is run.

Review all documentation

Before installing, review the following key documents that are included with this release:

- RDW 10.2 Release Notes.
- RDW 10.2 Operations Guide

Software upgrades

The migration to RDW 10.2 requires upgrades of the following dependent software packages. Refer to the product documentation for more information on upgrading these products.

- RETL 10.2
- RDW Web 2.3.X (optional)

Chapter 2 – General set up

System set up

- 1 After completing a successful batch run for DWI and RDW, verify that there are no outstanding errors in the batch error directories for DWI or RDW.
- 2 *Make a backup of the RDW, DWI, and RMS environments.*

Unpack files

DWI

- 1 Log in to the DWI UNIX server as retek.
- 2 Create a staging directory on your server:

```
%mkdir <DWI_STAGING_AREA>
```
- 3 In binary mode, FTP the file dwi102_migration.tar from the extracted zip file.
- 4 Change directory to the <DWI_STAGING_AREA>.
- 5 Untar the file:

```
%tar -xvf dwi102_migration.tar
```

The following directory structure(s) will exist under the
 <DWI_STAGING_AREA>:
 <DWI_STAGING_AREA>/

```

    /dwi/ etc
            include
            install
            schema
            src
  
```

RDW

- 6 Log in to the RDW UNIX server as retek.
- 7 Create a staging directory on your server:

```
%mkdir <RDW_STAGING_AREA>
```
- 8 In binary mode, FTP the file rdw102_migration.tar from the extracted zip file.

9 Change directory to the <RDW_STAGING_AREA>.

10 Untar the file:

```
%tar -xvf rdw102_migration.tar
```

The following directory structure(s) will exist under the
<RDW_STAGING_AREA>:

```
<RDW_STAGING_AREA>/
```

```
    /rdw/ etc
```

```
        install
```

```
        include
```

```
        lib
```

```
        schema
```

```
        src
```

```
        ora
```

```
        ter
```

```
        db2
```

Chapter 3 – RDW Oracle database migration

Update RDW database objects

Important: Review and understand the *.sql scripts and their accompanying documentation before you run them. Verify that each script runs successfully before moving to the next script.

Note: Each script contains comments at the beginning; these comments list which user should execute the scripts along with other important information.

- 1 Change directories in Unix to <RDW_STAGING_AREA>/rdw/ora.
- 2 Create two new tablespaces for matrix tables, dim_mtx_data, and dim_mtx_index, and grant unlimited quota to rdw10dm. These new tablespaces can be used for any matrix tables. All future patches with changes to matrix tables will use these tablespaces as a default.
- 3 Look through each script that start_rdw10dm.sql calls and verify that each retains data as needed for your RDW environment. Once verified, log in to SQL*Plus as rdw10dm and enter:

SQL> @start_rdw10dm.sql
- 4 View the log file rdw10dm_mig.lst and correct any errors that may occur due to data inconsistencies.

Set up RDW user permissions

- 5 Change directories on the Unix server to
<base_directory>/rdw10.1/dbasql.

This directory contains scripts that set up all necessary synonyms and grants for the RDW environment.

- The header of each file contains information regarding which user should execute the script, when to run them, and additional details about the scripts.
 - The scripts spool to the /tmp directory, which should already exist, but, before running, verify that this directory exists and can be written to.
- 6 The rdw_users.sql script has been set up to reference the default RDW usernames, so verify that they are correct and change to suit your environment if necessary.
 - 7 When prompted by any of the scripts for an object name, press the **[Enter]** key to create permissions for all objects in the schema.

- 8 Connect to SQL*Plus as rdw10dm and execute the following script to set up permissions to the datamart objects:

```
SQL>@gs_rdw10_dm_ora.sql  
SQL>@invalids.sql
```
- 9 Verify the scripts executed correctly by reviewing the following files:

```
g_rdw101_dm.lst, s_rdw101_dm.lst
```
- 10 Connect to SQL*Plus as rdw10md and execute the following script to set up permissions to the MicroStrategy database objects:

```
SQL>@gs_rdw10_md_ora.sql
```
- 11 Verify the scripts executed correctly by reviewing the following files:

```
g_rdw101_md.lst, s_rdw101_md.lst
```
- 12 Make a backup of the RDW database.
- 13 Continue on to Chapter 6, “ETL Code Migration”.

Chapter 4 – RDW DB2 database migration

Update RDW database objects

Important: Review and understand the *.sql scripts and their accompanying documentation before you run them. Verify that each script runs successfully before moving to the next script.

Note: Each script contains comments at the beginning; these comments list which user should execute the scripts along with other important information.

- 1 Log in to Unix as rdw10dm and change directories in Unix to
`<RDW_STAGING_AREA>/rdw/db2.`
- 2 Create a new buffer pool and temporary tablespace with a larger page size. The new tablespace will be used for existing views that have increased page size requirements due to column width changes. If you already have large buffer pool and tablespace this step can be skipped. Modify the sample script with your has been provided, `create_tbsp.sql`. Modify and execute at a Unix prompt.

```
%db2 connect to rdw10 user <instance owner>
%db2 -tvf create_tbsp.sql >create_tbsp.log
```
- 3 Look through each script that `start_rdw10dm.sh` calls and verify that each retains data as needed for your RDW environment. Modify the script `start_rdw10dm.sh` with your connection information. Once verified, enter:

```
%start_rdw10dm.sh > rdw10dm_mig.log
```
- 4 View the log file `rdw10dm_mig.log` and correct any errors that may occur due to data inconsistencies.

Set up RDW user permissions

- 5 Change directories on the Unix server to
`<base_directory>/rdw10.1/dbasql.`

This directory contains scripts that set up all necessary synonyms/aliases and grants for the RDW environment.

- The header of each file contains information regarding which user should execute the script, when to run them, and additional details about the scripts.
- All scripts create a SQL file with the necessary SQL statements; then, the SQL file is executed and output to a log file. The command syntax must be exactly as shown below.

- 6 Log in to the Unix server with the `rdw10dm` account.
- 7 All scripts have been set up to reference the default RDW usernames, so verify that they are correct and change to suit your environment if necessary.
- 8 Connect to `rdw10` as `rdw10dm` and execute the following script to grant permissions to the datamart objects:

```
%db2 connect to rdw10 user rdw10dm  
%db2-tf gs_rdw10_dm_db2.dyn > gs_rdw10_dm_db2.sql
```
- 9 Review the log file, `gs_rdw10_dm_db2.log`, to verify the script executed successfully.
- 10 Log in to the Unix server with the `rdw10md` account.
- 11 Connect to `rdw10` as `rdw10md` and execute the following script to grant permissions to the MicroStrategy metadata objects:

```
%db2 connect to rdw10 user rdw10md  
%db2 +-tf gs_rdw10_md_db2.dyn > gs_rdw10_md_db2.sql
```
- 12 Review the log file, `gs_rdw10_md_db2.log`, to verify the script executed successfully.
- 13 Make a backup of the RDW database.
- 14 Continue on to Chapter 6, “ETL Code Migration”.

Chapter 5 – RDW Teradata database migration

Update RDW database objects

Important: Review and understand the *.sql scripts and their accompanying documentation before you run them. Verify that each script runs successfully before moving to the next script.

Note: Each script contains comments at the beginning; these comments list which user should execute the scripts along with other important information.

- 1 Log in to RDW Load Server as Retek. Change directories in Unix to <RDW_STAGING_AREA>/rdw/ter.
- 2 Look through each script that start_rdw10dm.sql calls and verify that each retains data as needed for your RDW environment. Once verified, modify the username and password to suit your environment and enter:

```
% bteq < start_rdw10dm.sql > rdw10dm_mig.log
```
- 3 View the log file rdw10dm_mig.log and correct any errors that may occur due to data inconsistencies.

Set up RDW user permissions - optional

- 4 Change directories on the Unix server to
 <base_directory>/rdw10.1/dbasql.

This directory contains scripts that set up all necessary grants for the RDW environment. This step is optional for Teradata implementations.

- The header of each file contains information regarding which user should execute the script, when to run them, and additional details about the scripts.
- 5 All scripts have been set up to reference the default RDW usernames, so verify that they are correct and change to suit your environment if necessary.
 - 6 At a Unix Prompt enter:

```
%bteq .logon rdw10dm,password < \  

gs_rdw10_dm_td.dyn> gs_rdw10_dm_td.log  

%bteq .logon rdw10md,password < \  

gs_rdw10_md_td.dyn > gs_rdw10_md_td.log
```
 - 7 Review the log files for errors; make appropriate corrections if needed; and rerun the necessary portions.

- 8 Make a backup of the RDW database.
- 9 Continue on to Chapter 6, “ETL Code Migration”.

Chapter 6 – ETL code migration

Update RDW ETL modules

- 1 Take note of any customizations that you have made to RDW batch modules, schema files, and libraries and make backups for future reference. See the list of modules changed in Appendix B, “ETL changes”.

Note: The <base_directory> referred to below is the location of the code directory that was installed for RDW 10.1.

- 2 Log in to the RDW server as retek.

Source code

- 3 Copy the files located in <RDW_STAGING_AREA>/rdw/src to <base_directory> /rdw10.1/dev/rfx/src.

Libraries

- 4 Copy the files located in <RDW_STAGING_AREA>/rdw/lib to <base_directory> /rdw10.1/dev/rfx/lib.

Schema files

- 5 Copy the files located in <RDW_STAGING_AREA>/rdw/schema to <base_directory> /rdw10.1/dev/rfx/schema.

Configuration files

- 6 Copy the files located in <RDW_STAGING_AREA>/rdw/etc to <base_directory> /rdw10.1/dev/rfx/etc.

Installation files

- 7 Copy the files located in <RDW_STAGING_AREA>/rdw/install to <base_directory> /rdw10.1/dev/install.

Directory changes

- 8 Make a new directory for RDW to include files. Enter:
% mkdir <base_directory>/rdw10.1/dev/rfx/include
- 9 Copy the files located in <RDW_STAGING_AREA>/rdw/include to <base_directory> /rdw10.1/dev/rfx/include.

Update DWI ETL modules

- 1 Take note of any customizations that you have made to DWI batch modules, schema files, and libraries and make backups for future reference. See the list of modules changed in Appendix B, “ETL Changes”.

Note: The <base_directory> referred to below is location of the code directory that was installed for DWI 10.1.

- 2 Log in to the RDW server as retek.

Source code

- 3 Copy the files located in <DWI_STAGING_AREA>/dwi/src to <base_directory> /dwi10.1/dev/rfx/src.

Schema files

- 4 Copy the files located in <DWI_STAGING_AREA>/dwi/schema to <base_directory> /dwi10.1/dev/rfx/schema.

Configuration files

- 5 Copy the files located in <DWI_STAGING_AREA>/dwi/etc to <base_directory> /dwi10.1/dev/rfx/etc.

Directory changes

- 6 Make a new directory for DWI to include files and install code. Enter:
% mkdir <base_directory>/rdw10.1/dev/rfx/include
% mkdir <base_directory>/rdw10.1/dev/install
- 7 Copy the files located in <DWI_STAGING_AREA> /dwi/include to <base_directory> /dwi10.1/dev/rfx/include.
- 8 Copy the files located in <DWI_STAGING_AREA> /dwi/install to <base_directory> /dwi10.1/dev/rfx/install.

Configure RETL

- 1 This release of RDW incorporates RETL 10.2. Install and configure the RETL now on both the source and target servers. See the RETL Programmers Guide to install and configure this tool.

Configure RETL for DWI

- 2 Log in to the DWI Unix server with the `dwidev` account.
- 3 Change directories to `<base_directory>/dwi10.1/dev/rfx/etc`.
- 4 Modify the `dwi_config.env` script:
 - a Change the `DBNAME` variable to the name of the RMS database.
 - b Change the `RMS_OWNER` variable to the username of the RMS schema owner.
 - c Change the `BA_OWNER` variable to the username of the DWI batch user.
 - d Change the `LANGUAGE` variable to the appropriate two-letter language code for your environment. For an English installation, the `LANGUAGE` variable should be set to `en`.

Configure RETL for RDW

- 5 Log in to the RDW Unix server with the `rdw10dev` account.
- 6 Change directories to `<base_directory>/rdw10.1/dev/rfx/etc`.
- 7 Modify the `rdw_config.env` script to match your environment:
 - a Change the `DBNAME` variable to the name of RDW database.
 - b Change the `DB_ENV` variable to `ORA`, `DB2` or `TER` as appropriate.
 - c Change the `DM_OWNER` variable to the username of the RDW Data Mart schema owner.
 - d Change the `BA_OWNER` variable to the username of the RDW batch user.
 - e Change the `LOAD_TYPE` to `direct` or `conventional` based on the requirements for SQL Loading. See the RDW 10.2 Operations Guide program flow diagrams for more details.

- f Change the SCHEDULE_TYPE to sequential or parallel based on your batch processing schedule. The parameter is for DB2 implementations only. See the RDW 10.2 Operations Guide program flow diagrams for more details.
 - g Change the LANGUAGE variable to the appropriate two-letter language code for your environment. For an English installation the LANGUAGE variable should be set to en.
- 8 Continue on to Chapter 7, “MicroStrategy object migration”.

Chapter 7 – MicroStrategy object migration

The changes to MicroStrategy objects between RDW 10.1 and RDW 10.2 are not mandatory. They are optional because the changes do not affect the core functionality of RDW and are not critical to its implementation. The only change to MicroStrategy objects between RDW 10.1 and RDW 10.2 is the addition of a new Attribute Form (secondary attribute description) to three different Attributes (Location, Supplier, and Item). Appendix C has the details about these new Attribute Forms.

There are two different ways to migrate MicroStrategy objects to upgrade your current implementation of RDW 10.1 to RDW 10.2. The first strategy involves making changes and updates to your current implementation of RDW 10.1 manually. The second strategy is to discard your current RDW 10.1 metadata and do a fresh install of RDW 10.2.

Migration skills: You are expected to be a MicroStrategy administrator with significant expertise in MicroStrategy project administration in order to be able to migrate from RDW 10.1 to RDW 10.2.

Migration duration: The migration of the MicroStrategy objects for RDW 10.2 from RDW 10.1 will take approximately one hour per workbench.

Migration strategy 1

This strategy involves making changes and updates to your current implementation of RDW 10.1 manually, using MicroStrategy Desktop, to convert your RDW 10.1 implementation into an RDW 10.2 implementation.

Because the extent of changes between RDW 10.1 and RDW 10.2 is minimal and they are all optional, this is the recommended approach if you have RDW 10.1 already implemented and you prefer to manually update the objects to conform to RDW 10.2.

You will need to be logged in as an administrator with sufficient privilege in the different workbenches to be able to make the changes. Follow the directions given in the 'Change' column in the table in Appendix C for each of the objects to make the necessary changes.

Note: This migration strategy is applicable only when upgrading RDW from version 10.1 to 10.2. See the RDW 10.1 migration document for more on how to upgrade your RDW 10.0 to version 10.1.

Migration instructions

- 1 Using the MicroStrategy Desktop Warehouse Catalog, update the table structures of the following three tables:
 - PROD_ITEM_DM
 - ORG_LOC_DM
 - SUPP_DM
- 2 Once the structure of the three tables has been updated, add the secondary description Attribute Forms to the following three Attributes:
 - Item
 - Location
 - Supplier

The details of the Attribute Forms to be added are listed in Appendix C.

Note: While updating the Item Attribute in the Customer Workbench, you may get an “invalid objects” error message in MicroStrategy for Item List and Pack Attributes. Click “OK” and proceed if you get this error.

- 3 Perform a full Schema Update in MicroStrategy Desktop.

Migration Strategy 2

This strategy involves deleting your RDW 10.1 metadata, and replacing it with the new RDW 10.2 metadata. If you have not fully implemented RDW 10.1 or if you have not modified the ‘out-of-the-box’ RDW 10.1, this strategy is recommended.

Migration instructions

Follow the steps in Chapter 2 of the RDW 10.2 Middle-tier Installation Guide, or Appendix C of the RDW 10.2 Database Installation Guide.

Appendix A – Database changes

The following is a list of database object changes from the base version of RDW 10.1 to the base version of RDW 10.2.

Environment	Defect #/ Enhancement	Object	Script Name	Change
RDW	Enhancement	CDE_DTL_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	CMPTR_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	CMPTR_LOC_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	CMPTR_LOC_MTX_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	CMPY_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	CRNCY_CDE_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	CUST_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	EMPTY_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_AREA_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_CHAIN_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_CHANNEL_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_DISTT_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_LOC_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_LOC_TRAIT_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_LOCLST_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_REGN_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PHASE_DM	001_column_lengths.sql	Increased column lengths

Environment	Defect #/ Enhancement	Object	Script Name	Change
RDW	Enhancement	PRMTN_EVENT_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PRMTN_HEAD_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PRMTN_SCHM_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_CLASS_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_DEPT_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_DIFF_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_DIFF_TYPE_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_DIV_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_GRP_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_ITEM_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_ITEM_LOC_TRAITS_MTX_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_ITEM_UDA_DETAIL_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_ITEM_UDA_HEAD_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_ITEMLST_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_LEVEL1_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_LEVEL2_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_LEVEL3_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	PROD_SBC_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	REASN_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	REGIONALITY_GRP_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	RTL_TYPE_DM	001_column_lengths.sql	Increased column lengths

Environment	Defect #/ Enhancement	Object	Script Name	Change
RDW	Enhancement	SEASN_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	SUB_TRAN_TYPE_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	SUPP_CNTRCT_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	SUPP_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	SUPP_TRAIT_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_DAY_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_HALF_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_HALF_HOUR_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_HOUR_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_MINUTE_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_MTH_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_QTR_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_QTR_HOUR_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_WK_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_WKDAY_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TIME_YR_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	TNDR_TYPE_DM	001_column_lengths.sql	Increased column lengths
RDW	Enhancement	ORG_LOC_DM	002_org_loc_dm.sql	Added a secondary description column
RDW	Enhancement	PROD_ITEM_DM	003_prod_item_dm.sql	Added a secondary description column

Environment	Defect #/ Enhancement	Object	Script Name	Change
RDW	Enhancement	SUPP_DM	004_supp_dm.sql	Added a secondary description column
RDW Teradata	332032	INV_RCPTS_ITEM_LD_DM	005_inv_rcpts_item_ld_dm	Removed prod_seasn_key from primary index
RDW Teradata	332032	INV_TSF_ITEM_LW_DM	006_inv_tsf_item_lw_dm.sql	Added prod_seasn_key to the primary index

Appendix B – ETL changes

The following is a list of module, library, and schema file changes from the base version of RDW 10.1 to the base version of RDW 10.2. For more information, see the RDW 10.2 Operations Guide, which includes slight modifications to the batch flows (Chapter 7), module-specific changes (Chapter 8), and interface files (APIs in Appendix A).

Environment	Module Type	Defect#/Enhancement	Module	Change
DWI	Batch	335246	orglocex.ksh	335246 Use resource file variables instead of hardcoded strings, and added LOC_SECND_DESC column
DWI	Batch	335246	prddepex.ksh	335246 Localization changes
DWI	Batch	335246	prditmex.ksh	335246 Localization changes, and added ITEM_SECND_DESC column
DWI	Batch	335747	pre_dwi_temp.ksh	335747 Changed multiple DBREADs to use UNIONs inside a single DB session.
DWI	Batch	335246	prmschex.ksh	335246 Use resource file variables instead of hardcoded strings
DWI	Batch	335246	rsnex.ksh	335246 Use resource file variables instead of hardcoded strings
DWI	Batch	335246	supctrex.ksh	335246 Use resource file variables instead of hardcoded strings
DWI	Batch	335246	supsupex.ksh	335246 Localization changes, and added SUPP_SECND_DESC column

Environment	Module Type	Defect#/Enhancement	Module	Change
DWI	Configuration File	335246	dwi_config.env	335246 Added variable for setting the language and resource file. NLS_NUMERIC_CHARACTERS setting included to allow DWI RETL scripts to recognize numeric formats that include a comma (,) character to represent the decimal place.
DWI	Include file	335246	dwi_en.rsc	New resource file for English language
DWI	Include file	335246	dwi_es.rsc	New resource file for Spanish language
DWI	Include file	335246	dwi_fr.rsc	New resource file for French language
DWI	Include file	335246	dwi_ja.rsc	New resource file for Japanese language
DWI	Install	335246	extract_time.ksh	335246 New file that calls extract_time.sql
DWI	Install	335246, Enhancement	extract_time.sql	335246 Uses parameters instead of hardcoded text file names. Enhancement - Use table owner name to qualify tables in queries to allow DWI user to run.
DWI/RDW	Schema File	Enhancement	cmptrdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	cmptrlmdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	cmptrlocdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	crncycddm.schema	Expanded description columns for localization functionality

Environment	Module Type	Defect#/ Enhancement	Module	Change
DWI/RDW	Schema File	Enhancement	emptydm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orgaradm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orgchandm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orgchndm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orgdisdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orglocdm.schema	Expanded description columns for localization functionality, and added LOC_SECND_DESC column
DWI/RDW	Schema File	Enhancement	orgloldm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orgltrdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	orgrgndm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	phasdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prdcldm.schema	Expanded description columns for localization functionality

Environment	Module Type	Defect#/Enhancement	Module	Change
DWI/RDW	Schema File	Enhancement	prdcmpdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prddepdmd.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prddiffdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prddivdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prddtypdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prdgrpdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prditmdm.schema	Expanded description columns for localization functionality, and added ITEM_SECND_DESC column
DWI/RDW	Schema File	Enhancement	prditmldm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prditmltmdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prditmuddm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prditmuhdm.schema	Expanded description columns for localization functionality

Environment	Module Type	Defect#/ Enhancement	Module	Change
DWI/RDW	Schema File	Enhancement	prdsbcdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prmevtdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prmhdrdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	prmschdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	regngrpdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	rsndm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	seasndm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	subtrantypedm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	supctrdm.schema	Expanded description columns for localization functionality
DWI/RDW	Schema File	Enhancement	supsupdm.schema	Expanded description columns for localization functionality, and added SUPP_SECND_DESC column
DWI/RDW	Schema File	Enhancement	suptrtdm.schema	Expanded description columns for localization functionality

Environment	Module Type	Defect#/Enhancement	Module	Change
DWI/RDW	Schema File	Enhancement	tndrtypedm.schema	Expanded description columns for localization functionality
RDW	Batch	335246	custdemogdm.ksh	335246 Changed to use dummy row description instead of hard coded description in NVLs
RDW	Batch	Enhancement	orglocdm.ksh	Added LOC_SECND_DESC column as minor field
RDW	Batch	Enhancement	prditmdm.ksh	Added ITEM_SECND_DESC as minor field
RDW	Batch	Enhancement	supsupdm.ksh	Added SUPP_SECND_DESC as minor field
RDW	Configuration File	335246	rdw_config.env	335246 Added variable for setting the language and resource file.
RDW	Include file	335246	rdw_en.rsc	New resource file for English language
RDW	Include file	335246	rdw_es.rsc	New resource file for Spanish language
RDW	Include file	335246	rdw_fr.rsc	New resource file for French language
RDW	Include file	335246	rdw_ja.rsc	New resource file for Japanese language
RDW	Install	335246	cr_time.h	335246 Increase description length
RDW	Install	335246	cr_time.ksh	335246 Use resource file variables instead of hardcoded strings

Environment	Module Type	Defect#/ Enhancement	Module	Change
RDW	Install	335246, 335310	cr_time_13.c	335246 Use variables set using resource files instead of hardcoded strings 335310 Allow for string with blanks inside them
RDW	Install	335246, 335310	cr_time_454.c	335246 Use variables set using resource files instead of hardcoded strings 335310 Allow for string with blanks inside them
RDW	Install	335246	default_load.ksh	335246 Use language and resource file to determine which sql scripts to run.
RDW	Install	335246	load_cde_dtl_dm_fr.sql	335246 New file - French language version of load_cde_dtl_dm.sql
RDW	Install	335246	load_cde_dtl_dm_ja.sql	335246 New file - Japanese language version of load_cde_dtl_dm.sql
RDW	Install	335246	load_dummyrows_fr.sql	335246 New file - French language version of load_dummyrows.sql
RDW	Install	335246	load_dummyrows_ja.sql	335246 New file - Japanese language version of load_dummyrows.sql
RDW	Install	335246	load_prod_diff_type_dm_fr.sql	335246 New file - French language version of load_prod_diff_type_dm.sql
RDW	Install	335246	load_prod_diff_type_dm_ja.sql	335246 New file - Japanese language version of load_prod_diff_type_dm.sql
RDW	Install	335246	load_rtl_type_dm_fr.sql	335246 New file - French language version of load_rtl_type_dm.sql
RDW	Install	335246	load_rtl_type_dm_ja.sql	335246 New file - Japanese language version of load_rtl_type_dm.sql

Environment	Module Type	Defect#/Enhancement	Module	Change
RDW	Install	Enhancement	time_454.txt	Corrected one row of this sample text file to indicate that the 6th month of 2001 is a 5-week month instead of a 4-week month.
RDW	Install	335246	time_454_fr.txt	335246 New file - French language version of time_454.txt
RDW	Install	335246	time_454_ja.txt	335246 New file - Japanese language version of time_454.txt
RDW	Install	335246	time_day_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_half_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_half_hour_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_half_hour_dm_military.txt	335246 New file for localization functionality
RDW	Install	335246	time_hour_dm.schema	335246 Expanded description column sizes for localization functionality
RDW	Install	335246	time_hour_dm_military.txt	335246 New file for localization functionality
RDW	Install	335246	time_minute_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_minute_dm_military.txt	335246 New file for localization functionality
RDW	Install	335246	time_mth_dm.schema	335246 Expanded description column lengths for localization functionality

Environment	Module Type	Defect#/Enhancement	Module	Change
RDW	Install	335246	time_qtr_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_qtr_hour_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_qtr_hour_dm_military.txt	335246 New file for localization functionality
RDW	Install	335246	time_static_load.ksh	335246 Allow for military time for localization functionality
RDW	Install	335246	time_wk_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_wkday_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	time_yr_dm.schema	335246 Expanded description column lengths for localization functionality
RDW	Install	335246	wkday_fr.txt	335246 New file - French language version of wkday.txt
RDW	Install	335246	wkday_ja.txt	335246 New file - Japanese language version of wkday.txt
RDW	Library	334624	dim_top.ksh	334624 Added . in front of the update_next_key.ksh library call, so that all functions and parameters visible for dim_top.ksh are visible for update_next_key.ksh as well.

Environment	Module Type	Defect#/ Enhancement	Module	Change
RDW	Library	331528	factload.ksh	331528 Added program name in front of mindayidnt file name to allow basefact incremental update modules (such as invailddm.ksh, ivtilddm.ksh, etc.) to be able to run concurrently in an Oracle or Teradata environment
RDW	Schema File	335246	custdm.schema	335246 Expanded description column lengths for localization functionality

Appendix C – MicroStrategy object changes

The following is a list of MicroStrategy object changes made in RDW in the process of upgrading it from version 10.1 to 10.2. These changes are not mandatory. They are optional because the changes do not affect the core functionality of RDW and are not critical to its implementation. The only change to MicroStrategy objects between RDW 10.1 and RDW 10.2 is the addition of a new Attribute Form to three different Attributes as listed below.

Workbench Abbreviations:

- Category Management – CM
- Merchandising – ME
- Store Operations – SO
- Customer – CU

Workbench(s)	Object	Object Type	Change
All	PROD_ITEM_DM	Table	Update Structure
All	ORG_LOC_DM	Table	Update Structure
CM, ME, SO	SUPP_DM	Table	Update Structure
All	Item	Attribute	Add a new Attribute Form: Name: DESC2 ; Description: The secondary description of the item. ; Form Expression: Item_secnd_desc (PROD_ITEM_DM)
All	Location	Attribute	Add a new Attribute Form: Name: DESC2 ; Description: The secondary description or name of the store or warehouse. ; Form Expression: Loc_secnd_desc (ORG_LOC_DM)
CM, ME, SO	Supplier	Attribute	Add a new Attribute Form: Name: DESC2 ; Description: The secondary description or name of the Supplier. ; Form Expression: Supp_secnd_desc (SUPP_DM)