ibi™ WebFOCUS® Reporting Server

Migration Tool - Installation and User Guide

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Contents

Migration Introduction

It is possible to move an application and its data within an existing ibi™ WebFOCUS® environment, from one environment to another, between like platforms or different platforms or even to a containerized edition.

Platform Migration Overview

You can use the WebFOCUS® migration tool to migrate the ibi™ WebFOCUS® Reporting Server environment. This tool can analyze and export WebFOCUS® Reporting Server information from one platform to another.

You might want to migrate because you have a new machine that has a different operating system or you have an additional machine with the same operating system. You can migrate from a Windows machine to a Linux machine (or other platforms such as Solaris, AIX, i/OS and z/OS) and vice versa. You can migrate from an on-premises environment to the WebFOCUS container edition.

The users and groups from the older environment exist in the new environment after a successful migration.

The following phases are used in the migration process:

- Analyze phase: In this phase, the server configuration is scanned to identify which configuration settings might need to be updated in the new environment. As a last step in this phase, files that are already encrypted are encrypted again.
- Export phase: In this phase, a copy of the environment that is to be migrated is created as a `.zip` file.
- Import phase: In this phase, you can extract the file on the platform chosen for migration.

Installing the Migration Tool

You can install the migration tool only by using the silent install method. In this method, you must create a file with all the necessary parameters and then call the `isetup` (UNIX/Linux) executable file or `setup.exe` (Windows) executable file with applicable `-opt` parameters. You must install this tool on the same machine where the target server is installed. This is essential so that the file paths and drive letters (in Windows) match.

Before you begin

- Download the standard ibi™ WebFOCUS® Reporting Server package for the platform from edelivery@tibco.com.
- Extract the downloaded archive (`.zip` file on Windows and the `.run` file on other platforms).
- You must use the silent install method with special parameters to install the migration tool. You can manually create the silent install input file and run the setup on Windows or `isetup` on other platforms by using silent install parameters. Alternatively, you can also use the `migrate_install.bat` or `migrate_install.sh` script which creates the silent install input file for you and runs it.

Note: If you have minimal changes to do to the default parameters, such as the location of EDAHOME, then using the migrate_install script is simpler.

Installing the Migrating Tool Manually on UNIX/Linux

1. Create the parameters file. The following file, `options.txt`, is an example of the install parameter file that is created by using a shell script. However, you can create it by using any editor.

   In the following sample code, the option `-special_cfgoption MIGRATION` specifies that the installation is used as a migration server.

   ```
   -INST
   -customerid=<your assigned customer ID>
   -MEDIA /port/edaport/R729999D/tape/iserver.tar
   -EDACONF /home/smith/mtool/ibi/srv99/wfs
   -EDAHOME /home/smith/mtool/ibi/srv99/home
   ```

```
-EDAPRFU /home/smith/mtool/ibi/profiles
-APPROOT /home/smith/mtool/ibi/apps
-HTTP_PORT 8100
-IADMIN smith
-special_cfgoption MIGRATION
-nostart
```

Note: `-HTTP PORT 8100` is not actually used, but you must provide a value to avoid any errors during installation.

2. Run the `isetup` executable with the parameters file.

```
isetup -opt options.txt -silent
```

Installing the Migrating Tool Manually on Windows

1. Create the parameters file. This is similar to the UNIX/Linux file, but has Windows-style directory names. The following file, `options.txt`, is an example of the install parameter file that is created by using a shell script. However, you can create it by using any editor.

   In the following sample code, the option `-special_cfgoption MIGRATION` specifies that the installation is used as a migration server.

```
-INST
-customerid=<your assigned customer ID>
-EDACONF c:\mtool\ibi\srv93\wfs
-EDAHOME c:\mtool\ibi\srv93\home
-EDAPRFU c:\mtool\ibi\profiles
-APPROOT c:\mtool\ibi\apps
-HTTP_PORT 8100
-special_cfgoption MIGRATION
-nostart
```

Note: `-HTTP PORT 8100` is not actually used, but you must provide a value to avoid any errors during installation. The `-MEDIA` and `-IADMIN` parameters are not needed on Windows as the location is assumed from the `setup.exe` location and `-IADMIN` is assumed from the current ID.

2. Run the `setup` executable with the parameters file.

```
setup.exe -L0x409 -opt options.txt -silent
```

Installing the Migrating Tool by Using the `migrate_install` Script

Run the `migrate_install.sh` script for UNIX/LIinux or `migrate_install.bat` script for Windows. The script knows the correct `-m=xxx` directory if you run it from the same directory where you extracted the archive, else use the parameters. On UNIX/Linux, run the `chmod+x` command on the shell script if it is not executable.

```
$ migrate_install.sh [-i | -c | -r | -n | -h] -customerid={customerid}
[-d={Install Directory}] [-m={Media Directory}] [-e={EDAHOME Directory}]
[-x]
```

where

`-i` Installs (or `-install`) and configures. This is the default behavior unless you use `-r` (refresh) or `-c` (configure).

`-customerid` is your assigned customer ID.

`-n` No run (or `-norun`). This option displays the created options file but does not run the actual install, configure, or refresh commands. You can use this option to form a silent input file and later use it for installing the tool manually. The silent input file must be in the working directory or you must add the full path.

`-c` Configures (or `-configure`) the migration software from an existing EDAHOME directory. This requires the `-e` EDAHOME directory.

`-r` Refreshes the EDAHOME directory (or `-refresh`). This also requires parameters `-e` EDAHOME directory and `-m` Media directory, or a valid default for `-m`.

`-d` Installs the directory (or `-directory=xxx`). The default is `$HOME/mtool/ibi` on UNIX/Linux and `C:\mtool\ibi` on Windows.

`-m` Media directory (or `-media=xxx`). The default is where the `./migrate_install.sh` script and the `version.cfg`, `isetup`, `inu.out`, and `iserver.tar` files reside on UNIX/Linux and the `./migrate_install.bat` script and the `version.cfg`, `isetup.exe`, `inu.out` and `iserver.tar` files reside on Windows.

`-e` EDAHOME Directory (or `-edahome=xxx`). This option has no default value for the `-r` (refresh) or `-c` (configure) options and is required for these options.

`-x` Turns on shell script tracing.

Another advantage of using the migrate_install script method is that it creates a log file. Depending on the install options that you choose, this file could be `setup-install.log`, `isetup-configure.log`, or `isetup-refresh.log`.

Creating the Workspace for Migration

After installing the migrate tool, the next step is to create and populate a workspace to migrate. This space is a directory (`_migrateinfo`) under the `EDACONF` directory and is created by the dgeserve script described in this section.

Before you begin

You must know the directory path of the WebFOCUS Reporting Server that you want to migrate (target) and the location of the `.zip` file of the client repository (`wfclientrepository`). For more information about creating the `.zip` file of the client repository, see Creating .zip File of the Client Repository.

> **Note:** Run the script in an empty directory to avoid affecting any existing files. Use the path where you installed the migration tool.

Procedure

To create the space to migrate, use the shell script `dgedaserve.sh` for UNIX/Linux or `dgedaserve.bat` for Windows. Note that if you create the archive of the client repository before doing the dgedaserve step, it is also analyzed for migration needs and included in the migration archive that is created later in this process.

For UNIX/Linux

```
bin/dgedaserve.sh  -target={full path to Target server's configuration
directory (EDACONF)} [-wfclientrepository={full path to client
repository zip}] [-edatemp={full path to alternate EDATEMP location}]
```

> **Note:** The full path to the EDATEMP location is the one that is used by a target server that uses an alternate EDATEMP location. This is where the `edaprint.log` file is located. The `-edatemp` parameter is not needed if the target server does not use an alternate EDATEMP.

After you run this command, a message similar to the following message is displayed on the screen:

```
dgeserve: Changes done, when ready do ...
Run via Command Line ...
1. Run: /home/webfocus/mtool/ibi/srv93/wfs/_migrateinfo/run_analyze.sh

2. After completion, you may run individual requests against the
analyze.mas data file to create area specific reports or data files
back to the /home/webfocus/mtool/ibi/srv93/wfs/_migrateinfo directory by
running:

/home/webfocus/mtool/ibi/srv93/wfs/bin/tscomrun -x EX {reporting
focexec} [HTML|CSV|COM]

where, {reporting focexec} is one of:
_edaconf/_migrateinfo/analyze_appmapwithamper
_edaconf/_migrateinfo/analyze_appmapwithnoamper
_edaconf/_migrateinfo/analyze_binary_export
_edaconf/_migrateinfo/analyze_binary
_edaconf/_migrateinfo/analyze_config
_edaconf/_migrateinfo/analyze_connection
_edaconf/_migrateinfo/analyze_filedefwithamper
_edaconf/_migrateinfo/analyze_filedefwithnoamper
_edaconf/_migrateinfo/analyze_focus
_edaconf/_migrateinfo/analyze_jar
_edaconf/_migrateinfo/analyze_master
_edaconf/_migrateinfo/analyze_oscommand
_edaconf/_migrateinfo/analyze_set
_edaconf/_migrateinfo/analyze_style
_edaconf/_migrateinfo/analyze_use

or
run the shell script /home/webfocus/mtool/ibi/srv93/wfs/_
migrateinfo/analyze_runall.sh (to run all).

The HTML parameter can be passed to create as .htm files that can be
opened in a browser or use CSV or COM to create a .csv and matching.mas.

3. Run: /home/smith/mtool/ibi/srv93/wfs/_migrateinfo/migrate_export.sh
to prepare .zip archive for the new platform.
```

For Windows

```
c:\...\wfs\bin\dgedaserve.bat  -target={full path to Target server's
configuration directory} [ -edatemp={full path to alternate EDATEMP
location} ]
```

Note: The full path to the EDATEMP location is the one that is used by a target server that uses an alternate EDATEMP location. This is where the `edaprint.log` file is located. The `-edatemp` parameter is not needed if the target server does not use an alternate EDATEMP.

After you run this command, a message similar to the following message is displayed on the screen:

```
dgedaserve: Changes done, when ready do ...
Run via Command Line ...
1. Run: C:\migratetool\ibi\srv99\wfs\_migrateinfo\run_analyze.bat.

2. After completion, you might want to run individual requests against
the analyze.mas data file to create area-specific reports or data files
back to the C:\migratetool\ibi\srv99\wfs\_migrateinfo directory by
running:
C:\migratetool\ibi\srv99\wfs\bin\tscomrun.bat -x EX {reporting focexec}
[HTML|CSV|COM]

where {reporting focexec} is one of:
_edaconf/_migrateinfo/analyze_appmapwithamper.fex
_edaconf/_migrateinfo/analyze_appmapwithnoamper.fex
_edaconf/_migrateinfo/analyze_binary.fex
_edaconf/_migrateinfo/analyze_binary_export.fex
_edaconf/_migrateinfo/analyze_config.fex
_edaconf/_migrateinfo/analyze_connection.fex
_edaconf/_migrateinfo/analyze_filedefwithamper.fex
_edaconf/_migrateinfo/analyze_filedefwithnoamper.fex
_edaconf/_migrateinfo/analyze_focus.fex
_edaconf/_migrateinfo/analyze_jar.fex
_edaconf/_migrateinfo/analyze_master.fex
_edaconf/_migrateinfo/analyze_oscommand.fex
_edaconf/_migrateinfo/analyze_set.fex
_edaconf/_migrateinfo/analyze_style.fex
_edaconf/_migrateinfo/analyze_use.fex

Run the shell script  C:\migratetool\ibi\srv99\wfs\_migrateinfo\analyze_
runall.bat (to run all).

You can pass the HTML parameter  to create .htm files as they can be
opened in a browser or you can use CSV or COM to create a .csv file and
a matching .mas file.

3. Run: C:\migratetool\test\ibi\srv99\wfs\_migrateinfo\migrate_
export.bat to prepare .zip archive for the new platform.
```

Creating `.zip` File of the Client Repository

To create a `.zip` file of the client repository, perform the following steps:

1. Navigate to the directory where you installed WebFOCUS and run the wfcmigration migration utility. For example,

   ```
   c:\ibi\WebFOCUS93\utilities\migration\wfcmigration
   ```

2. Enter a valid WebFOCUS administrator ID and password.
3. Provide a name for the `.zip` file. The default is `repository`.
4. Your credentials are validated and the repository processing begins.
5. After the migration process is successful, the `repository.zip` file is created.
6. If the client and server are on different machines, the .zip file should either be copied to the machine or made accessible by using something such as NFS mount.

   Note: You may need to upgrade the client to obtain the script. If you do not want to upgrade the client, contact support to obtain a copy of the script.

Running the Analyzed Script

This phase analyzes the files on the target WebFOCUS Reporting Server.

Procedure

Run the `run_analyze.sh` script on UNIX/Linux or `run_analyze.bat` script on Windows.

For UNIX/Linux

```
home/smith/ibi/srv93/wfs/_migrateinfo/run_analyze.sh
```

After you run this command, a message similar to the following message is displayed on the screen:

```
dgeserve: Changes done, when ready do ...
Run via Command Line ...

1. Run: /home/webfocus/mtool/ibi/srv93/wfs/_migrateinfo/run_analyze.sh
2. After completion, you may run individual requests against the
analyze.mas data file to create area-specific reports or data files back
to the /home/webfocus/mtool/ibi/srv93/wfs/_migrateinfo directory by
running:

/home/webfocus/mtool/ibi/srv93/wfs/bin/tscomrun -x EX {reporting
focexec} [HTML|CSV|COM]

where, {reporting focexec} is one of:
_edaconf/_migrateinfo/analyze_appmapwithamper
_edaconf/_migrateinfo/analyze_appmapwithnoamper
_edaconf/_migrateinfo/analyze_binary_export
_edaconf/_migrateinfo/analyze_binary
_edaconf/_migrateinfo/analyze_config
_edaconf/_migrateinfo/analyze_connection
_edaconf/_migrateinfo/analyze_filedefwithamper
_edaconf/_migrateinfo/analyze_filedefwithnoamper
_edaconf/_migrateinfo/analyze_focus
_edaconf/_migrateinfo/analyze_jar
_edaconf/_migrateinfo/analyze_master
_edaconf/_migrateinfo/analyze_oscommand
_edaconf/_migrateinfo/analyze_set
_edaconf/_migrateinfo/analyze_style
_edaconf/_migrateinfo/analyze_use

or
run the shell script /home/webfocus/mtool/ibi/srv93/wfs/_
migrateinfo/analyze_runall.sh (to run all). Note that the analyze_
runall.sh does not accept parameters.

The HTML parameter can be passed to create as .htm files that can be
opened in a browser or use CSV or COM to create a .csv and matching
.mas.

3. Run: /home/smith/mtool/ibi/srv93/wfs/_migrateinfo/migrate_export.sh
to prepare .zip archive for the new platform.

Analysis completed. (3341 records found).
```

Later, for UNIX/Linux, you can run any of the procedures described earlier such as: `.../bin/tscomrun -x EX _edaconf/_migrateinfo/analyze_config`.

For Windows

```
c:\smith\ibi\srv93\wfs\_migrateinfo\run_analyze.bat
```

After you run this command, a message similar to the following message is displayed on the screen:

```
dgeserve: Changes done, when ready do ...
Run via Command Line ...
1. Run: C:\mtool\ibi\srv93\wfs\_migrateinfo\run_analyze.bat

2. After completion, you may run individual requests against the
analyze.mas data file to create area specific reports or data files back
to C:\mtool\ibi\srv93\wfs\_migrateinfo directory directory by running:

C:\mtool\ibi\srv93\wfs\bin\tscomrun.bat -x EX {reporting focexec}
[HTML|CSV|COM]

where, {reporting focexec} is one of:
_edaconf/_migrateinfo/analyze_appmapwithamper
_edaconf/_migrateinfo/analyze_appmapwithnoamper
_edaconf/_migrateinfo/analyze_binary_export
_edaconf/_migrateinfo/analyze_binary
_edaconf/_migrateinfo/analyze_config
_edaconf/_migrateinfo/analyze_connection
_edaconf/_migrateinfo/analyze_filedefwithamper
_edaconf/_migrateinfo/analyze_filedefwithnoamper
_edaconf/_migrateinfo/analyze_focus
_edaconf/_migrateinfo/analyze_jar
_edaconf/_migrateinfo/analyze_master
_edaconf/_migrateinfo/analyze_oscommand
_edaconf/_migrateinfo/analyze_set
_edaconf/_migrateinfo/analyze_style
_edaconf/_migrateinfo/analyze_use

or
run the shell script C:\mtool\ibi\srv93\wfs\_migrateinfo\analyze_
runall.bat (to run all). Note that the analyze_runall.bat does not
accept parameters.

The HTML parameter can be passed to create as .htm files that can be
opened in a browser or use CSV or COM to create a .csv and matching
.mas.

3. Run: c:/mtool/ibi/srv93/wfs/_migrateinfo/migrate_export.sh to prepare
.zip archive for the new platform.
```

```
Analysis completed. (3341 records found).
```

Later, for Windows, you can run `...\bin\tscomrun -x EX _edaconf\_migrateinfo\analyze_config`.

Creating the .zip File to Migrate

This phase runs the `migrate_export` shell script that is listed in the output of the dgeserve script, which creates a data directory under the `_migrateinfo` directory. It then archives the data tree into a `migrateinfodata.zip` file in the `_migrateinfo` directory.

You can use the `migrateinfodata.zip` file during the import phase to recreate the original WebFOCUS Reporting Server environment.

Run the script as follows:

For UNIX/Linux

```
/home/smith/ibi/srv93/wfs/_migrateinfo/migrate_export.sh
```

For Windows

```
C:\mtool\ibi\srv93\wfs\_migrateinfo\migrate_export.bat
```

At the end, a message is displayed informing that all the data has been zipped into the `migrateinfodata.zip` under the `_migrateinfo` directory.

Importing the Zip File

Now that all the data to be migrated is available in the `_migrationinfo/data/migrateinfodata.zip` file, you can import it on the new platform and extract it.

Understanding the Imported Files

It is important that you understand what the files that are included in the zip that you import to the new platform and what you can do with it.

Currently, there is no automated import of the `.zip` file created by the export process; so the current advantage of the migration tool is limited to gathering all files needed for a new environment and providing scripts that annotate the files that need some level of examination in the new environment, such as, for adjusting hard coded directory paths that may differ in the new environment.

Perform the following tasks:

- Copy the server directories from the export `.zip` file to the applicable new location.
- Adjust the configuration files according to the `_edaconf/_migrateinfo/analyze_*` scripts mentioned earlier. You might have to make simple adjustments, for example, for hard-coded paths. The analyzed reports can help you in identifying these paths. There might be data files that are reconstituted, such as the `.foc` files. Reload files such as FOCUS databases.
- Import the client repository portion of the export `.zip` file.

You can find the files that need to be reloaded under the `_migrateinfo/data/appdata` directory tree which has subdirectories that shadow where the original files are present. The following examples show such files that might need reloading and how to do the actual reloading.

Example 1 (A FOCUS Database)

The following list of files shows that a master and focus files are found.

```
/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/world.ftm

/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/world.mas

/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/world_mfd_
original.mas

/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/world_mfd_
original_suffix.txt
```

The `world.mas` file is the export extract. The `world_mfd_original_suffix.txt` file contains the original MFD suffix=value and also data files such as `.ftm` (`FIX` usually). So while the attached example is for FOCUS, you need to check what the suffix was and use the applicable word in the `FORMAT XXXX` syntax for the import. Some formats do not use the

same suffix value. FIX usually uses either no FORMAT XXXX syntax or, FORMAT ALPHA, or FORMAT BINARY syntax.

Example 2

The following list of files shows that a master file for SUFFIX=COM, which is a comma-delimited file, is found. However, there is no matching data file, which is usually a .csv file. This is a common example where the SUFFIX= and the extension do not match.

```
/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/ibimrdmc_
mfd_data_missing.txt

/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/ibimrdmc_
mfd_original.mas

/home/smith/mtool/ibi/srv93/wfs/_migrateinfo/data/appdata/ibisamp/ibimrdmc_
mfd_original_suffix.txt
```

Note that there is a *_mfd_data_missing.txt file to note explicitly that the data portion is missing. The file simply contains the word YES, but just the file's existence indicates the situation. This file would not be created if the data portion is found.

In this case, the missing data file might be an indication that the original MFD might be a leftover, unused file that does not need to be moved to the applicable location. However, it might actually also be used by some app that copies in or knows the location and issues a FILEDEF and so it should be copied to the applicable location. Effectively, you must know your application well enough to decide a proper course of action, which might be to copy the file to the applicable final location.

Example: Convert and Reload FOCUS Database

This is an example of how a FOCUS database file is converted and how it is reloaded. There is no automated reload tool available currently, hence it is important to understand the manual steps that you might need to accomplish the task.

The example uses the classic CAR file, but appends a DBA to match what you might have on their files:

This is the car_export_and_import.fex file:

```
-DEFAULT &SOURCETABLE = car
-SET &HOLDNAME = '_edatemp/' || &SOURCETABLE || '-extract' ;
-SET &FOCUSNAME = '_edatemp/' || &SOURCETABLE || '-import' ;
-SET &SOURCETABLE = LOWER(&SOURCETABLE) ;
```

```
-SET &FOCUSNAME = LOWER(&FOCUSNAME) ;
-SET &ECHO=ALL;

-*
-* Create initial extract
-*
TABLE FILE &SOURCETABLE PRINT *
ON TABLE HOLD AS &HOLDNAME ON TABLE SET EXTRACT ON
END
-RUN

-*
-* Append DBA as original test source (car) usually doesn't
-* have DBA configured.
-*
EX -LINES * EDAPUT MASTER, &HOLDNAME,A,FILE
END
DBA=MYPASS,$
EDAPUT*
-RUN

-*
-* Issue password so available for import create step
-*
SET PASS = MYPASS
-RUN

-*
-* Create imported FOCUS file, note SET EXTRACT ON is also used,
-* but in combination with HOLD AS XXXX FORMAT FOCUS you end
-* up with the imported FOCUS file.
-*
TABLE FILE &HOLDNAME PRINT *
ON TABLE HOLD AS &FOCUSNAME FORMAT FOCUS ON TABLE SET EXTRACT ON
END
-RUN

-*
-* Set a different pass to show DBA enforcement works
-* and request is blocked
-*
SET PASS = XXXX
TABLE FILE &FOCUSNAME PRINT * ON TABLE SET PANEL 9999
END
-RUN

-*
```

```
-* Set correct pass to show DBA enforcement works and request
-* is NOT blocked
-*
SET PASS = MYPASS
TABLE FILE &FOCUSNAME PRINT * ON TABLE SET PANEL 9999
END
-RUN

-*
-* Display what the exported .mas looks like with the DBA
-* that we added for test purposes.
-*
EX EDAGET MASTER,&HOLDNAME
-RUN


-*
-* Display what the imported .mas looks like, but note that
-* comments are lost (like the copyright lines).
-*
EX EDAGET MASTER,&FOCUSNAME
-RUN

-*
-* Display what the original .mas looks like, note it doesn't
-* have DBA because we dynamically added to initial extract
-* for test demonstation purposes. A customer wouldn't add
-* on the fly as shown here as they would either already have
-* it in the their .mas already or wouldn't be using for the file.
-*
EX EDAGET MASTER,&SOURCETABLE
```

This is the output generated after you run the FOCEXEC:

```
-*
-* Create initial extract
-*
TABLE FILE car PRINT *
ON TABLE HOLD AS _edatemp/car-extract ON TABLE SET EXTRACT ON
END
-RUN
-*
-* Append DBA as original test source (car) usually doesn't
-* have DBA configured.
-*
EX -LINES * EDAPUT MASTER, _edatemp/car-extract,A,FILE
```

```
END
DBA=MYPASS,$
EDAPUT*
-RUN
-*
-* Issue password so available for import create step
-*
SET PASS = MYPASS
-RUN
-*
-* Create imported FOCUS file, note SET EXTRACT ON is also used,
-* but in combination with HOLD AS XXXX FORMAT FOCUS you end
-* up with the imported FOCUS file.
-*
TABLE FILE _edatemp/car-extract PRINT *
ON TABLE HOLD AS _edatemp/car-import FORMAT FOCUS
ON TABLE SET EXTRACT ON
END
-RUN
-*
-* Set a different pass to show DBA enforcement works
-* and request is blocked
-*
SET PASS = XXXX
TABLE FILE _edatemp/car-import PRINT * ON TABLE SET PANEL 9999
END
-RUN
 ERROR AT OR NEAR LINE     42  IN PROCEDURE CAR_EXPORT_AND_IMPORT
(FOC047) THE USER DOES NOT HAVE SUFFICIENT ACCESS RIGHTS TO THE FILE:
 _EDATEMP/CAR-IMPORT
(FOC009) Request failed validation, not executed.
-*
-* Set correct pass to show DBA enforcement works and request
-* is NOT blocked
-*
SET PASS = MYPASS
TABLE FILE _edatemp/car-import PRINT * ON TABLE SET PANEL 9999
END
-RUN
(FOC757) WARNING. YOU REQUESTED PRINT * OR COUNT * FOR A MULTIPATH FILE
 NUMBER OF RECORDS IN TABLE=       18  LINES=     18

 PAGE     1


 COUNTRY     CAR               MODEL                     ...
 -------     ---               -----                     ...
```

```
 ENGLAND     JAGUAR            V12XKE AUTO               ...
 ENGLAND     JAGUAR            XJ12L AUTO                ...
 ENGLAND     JENSEN            INTERCEPTOR III           ...
 ENGLAND     TRIUMPH           TR7                       ...
 JAPAN       DATSUN            B210 2 DOOR AUTO          ...
 JAPAN       TOYOTA            COROLLA 4 DOOR DIX AUTO   ...
 ITALY       ALFA ROMEO        2000 4 DOOR BERLINA       ...
 ITALY       ALFA ROMEO        2000 GT VELOCE            ...
 ITALY       ALFA ROMEO        2000 SPIDER VELOCE        ...
 ITALY       MASERATI          DORA 2 DOOR               ...
 W GERMANY   AUDI              100 LS 2 DOOR AUTO        ...
 W GERMANY   BMW               2002 2 DOOR               ...
 W GERMANY   BMW               2002 2 DOOR AUTO          ...
 W GERMANY   BMW               3.0 SI 4 DOOR             ...
 W GERMANY   BMW               3.0 SI 4 DOOR AUTO        ...
 W GERMANY   BMW               530I 4 DOOR               ...
 W GERMANY   BMW               530I 4 DOOR AUTO          ...
 FRANCE      PEUGEOT           504 4 DOOR                ...
 (Note: Lines truncated for documentation readability)

-*
-* Display what the exported .mas looks like with the DBA
-* that we added for test purposes.
-*
EX EDAGET MASTER,_edatemp/car-extract
-RUN
FILENAME=CAR-EXTRACT, SUFFIX=FIX     ,
DATASET=_edatemp/car-extract.ftm (LRECL 270 RECFM F, IOTYPE=BINARY,
REMARKS='Legacy Metadata Sample: car', $
 SEGMENT=ORIGIN, SEGTYPE=S1, $
   FIELDNAME=RECTYPE, ALIAS=R, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=COUNTRY, ALIAS=COUNTRY, USAGE=A10, ACTUAL=A10,
         FIELDTYPE=I, $
 SEGMENT=COMP, SEGTYPE=S1, PARENT=ORIGIN, $
   FIELDNAME=RECTYPE, ALIAS=1, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=CAR, ALIAS=CARS, USAGE=A16, ACTUAL=A16, $
 SEGMENT=CARREC, SEGTYPE=S1, PARENT=COMP, $
   FIELDNAME=RECTYPE, ALIAS=2, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=MODEL, ALIAS=MODEL, USAGE=A24, ACTUAL=A24, $
 SEGMENT=BODY, SEGTYPE=S1, PARENT=CARREC, $
   FIELDNAME=RECTYPE, ALIAS=3, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=BODYTYPE, ALIAS=TYPE, USAGE=A12, ACTUAL=A12, $
   FIELDNAME=SEATS, ALIAS=SEAT, USAGE=I3, ACTUAL=I04, $
   FIELDNAME=DEALER_COST, ALIAS=DCOST, USAGE=D7, ACTUAL=D08, $
   FIELDNAME=RETAIL_COST, ALIAS=RCOST, USAGE=D7, ACTUAL=D08, $
   FIELDNAME=SALES, ALIAS=UNITS, USAGE=I6, ACTUAL=I04, $
 SEGMENT=SPECS, SEGTYPE=U, PARENT=BODY, $
```

```
   FIELDNAME=RECTYPE, ALIAS=4, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=LENGTH, ALIAS=LEN, USAGE=D5, ACTUAL=D08, $
   FIELDNAME=WIDTH, ALIAS=WIDTH, USAGE=D5, ACTUAL=D08, $
   FIELDNAME=HEIGHT, ALIAS=HEIGHT, USAGE=D5, ACTUAL=D08, $
   FIELDNAME=WEIGHT, ALIAS=WEIGHT, USAGE=D6, ACTUAL=D08, $
   FIELDNAME=WHEELBASE, ALIAS=BASE, USAGE=D6.1, ACTUAL=D08, $
   FIELDNAME=FUEL_CAP, ALIAS=FUEL, USAGE=D6.1, ACTUAL=D08, $
   FIELDNAME=BHP, ALIAS=POWER, USAGE=D6, ACTUAL=D08, $
   FIELDNAME=RPM, ALIAS=RPM, USAGE=I5, ACTUAL=I04, $
   FIELDNAME=MPG, ALIAS=MILES, USAGE=D6, ACTUAL=D08, $
   FIELDNAME=ACCEL, ALIAS=SECONDS, USAGE=D6, ACTUAL=D08, $
 SEGMENT=WARANT, SEGTYPE=S1, PARENT=COMP, $
   FIELDNAME=RECTYPE, ALIAS=5, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=WARRANTY, ALIAS=WARR, USAGE=A40, ACTUAL=A40, $
 SEGMENT=EQUIP, SEGTYPE=S1, PARENT=COMP, $
   FIELDNAME=RECTYPE, ALIAS=6, USAGE=A3, ACTUAL=A3, $
   FIELDNAME=STANDARD, ALIAS=EQUIP, USAGE=A40, ACTUAL=A40, $
END
DBA=MYPASS,$
-*
-* Display what the imported .mas looks like, but note that
-* comments are lost (like the copyright lines).
-*
EX EDAGET MASTER,_edatemp/car-import
-RUN
FILENAME=CAR-IMPORT, SUFFIX=FOC     ,
REMARKS='Legacy Metadata Sample: car', $
 SEGMENT=ORIGIN, SEGTYPE=S1, $
   FIELDNAME=COUNTRY, ALIAS=COUNTRY, USAGE=A10, FIELDTYPE=I, $
 SEGMENT=COMP, SEGTYPE=S1, PARENT=ORIGIN, $
   FIELDNAME=CAR, ALIAS=CARS, USAGE=A16, $
 SEGMENT=CARREC, SEGTYPE=S1, PARENT=COMP, $
   FIELDNAME=MODEL, ALIAS=MODEL, USAGE=A24, $
 SEGMENT=BODY, SEGTYPE=S1, PARENT=CARREC, $
   FIELDNAME=BODYTYPE, ALIAS=TYPE, USAGE=A12, $
   FIELDNAME=SEATS, ALIAS=SEAT, USAGE=I3, $
   FIELDNAME=DEALER_COST, ALIAS=DCOST, USAGE=D7, $
   FIELDNAME=RETAIL_COST, ALIAS=RCOST, USAGE=D7, $
   FIELDNAME=SALES, ALIAS=UNITS, USAGE=I6, $
 SEGMENT=SPECS, SEGTYPE=U, PARENT=BODY, $
   FIELDNAME=LENGTH, ALIAS=LEN, USAGE=D5, $
   FIELDNAME=WIDTH, ALIAS=WIDTH, USAGE=D5, $
   FIELDNAME=HEIGHT, ALIAS=HEIGHT, USAGE=D5, $
   FIELDNAME=WEIGHT, ALIAS=WEIGHT, USAGE=D6, $
   FIELDNAME=WHEELBASE, ALIAS=BASE, USAGE=D6.1, $
   FIELDNAME=FUEL_CAP, ALIAS=FUEL, USAGE=D6.1, $
   FIELDNAME=BHP, ALIAS=POWER, USAGE=D6, $
```

```
   FIELDNAME=RPM, ALIAS=RPM, USAGE=I5, $
   FIELDNAME=MPG, ALIAS=MILES, USAGE=D6, $
   FIELDNAME=ACCEL, ALIAS=SECONDS, USAGE=D6, $
 SEGMENT=WARANT, SEGTYPE=S1, PARENT=COMP, $
   FIELDNAME=WARRANTY, ALIAS=WARR, USAGE=A40, $
 SEGMENT=EQUIP, SEGTYPE=S1, PARENT=COMP, $
   FIELDNAME=STANDARD, ALIAS=EQUIP, USAGE=A40, $
END
DBA=MYPASS, $
-*
-* Display what the original .mas looks like, note it doesn't
-* have DBA because we dynamically added to initial extract
-* for test demonstation purposes. A customer wouldn't add
-* on the fly as shown here as they would either already have
-* it in the their .mas already or wouldn't be using for the file.
-*
EX EDAGET MASTER,car
$-----------------------------------------------------------------------$
$ Copyright (c) 2001-2023. Cloud Software Group, Inc.
$                                                    All rights reserved.
$ @MFSM_NOPROLOG@ Source control tag, please ignore and do not delete.
$-----------------------------------------------------------------------$

FILENAME=CAR,SUFFIX=FOC,REMARKS='Legacy Metadata Sample: car',$
SEGNAME=ORIGIN,SEGTYPE=S1
 FIELDNAME=COUNTRY,COUNTRY,A10,FIELDTYPE=I,$
SEGNAME=COMP,SEGTYPE=S1,PARENT=ORIGIN
 FIELDNAME=CAR,CARS,A16,$
SEGNAME=CARREC,SEGTYPE=S1,PARENT=COMP
 FIELDNAME=MODEL,MODEL,A24,$
SEGNAME=BODY,SEGTYPE=S1,PARENT=CARREC
 FIELDNAME=BODYTYPE,TYPE,A12,$
 FIELDNAME=SEATS,SEAT,I3,$
 FIELDNAME=DEALER_COST,DCOST,D7,$
 FIELDNAME=RETAIL_COST,RCOST,D7,$
 FIELDNAME=SALES,UNITS,I6,$
SEGNAME=SPECS,SEGTYPE=U,PARENT=BODY
 FIELDNAME=LENGTH,LEN,D5,$
 FIELDNAME=WIDTH,WIDTH,D5,$
 FIELDNAME=HEIGHT,HEIGHT,D5,$
 FIELDNAME=WEIGHT,WEIGHT,D6,$
 FIELDNAME=WHEELBASE,BASE,D6.1,$
 FIELDNAME=FUEL_CAP,FUEL,D6.1,$
 FIELDNAME=BHP,POWER,D6,$
 FIELDNAME=RPM,RPM,I5,$
 FIELDNAME=MPG,MILES,D6,$
 FIELDNAME=ACCEL,SECONDS,D6,$
```

```
SEGNAME=WARANT,SEGTYPE=S1,PARENT=COMP
 FIELDNAME=WARRANTY,WARR,A40,$
SEGNAME=EQUIP,SEGTYPE=S1,PARENT=COMP
 FIELDNAME=STANDARD,EQUIP,A40,$
```

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