



Rsam Platform

Time Zone Change Utility

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About this Guide

This document provides instructions for using the Rsam Time Zone Change Utility to change the time zone of the date-time and time fields in the Rsam database.

This guide is intended to be used by Rsam Administrators or those users responsible for maintaining Rsam in customer environments.

Using the Time Zone Change Utility

Prerequisites

The prerequisites to using the Time Zone Change Utility are as follows:

1. Stop the Rsam Scheduler service before running this utility and restart the service once the utility has completed the execution successfully. This ensures that the date & time values related to Scheduler tables are updated correctly.
2. Obtain the utility from Rsam Technical Support.
3. Extract the contents of the folder, **TimeZoneChangeUtility.zip**.
4. Execute the **DB_Script.sql** file in your Rsam database.
5. Create a **distweb.dat** file with the following account credentials.
 - db_datareader
 - db_datawriter
 - public
 - rsam_client
 - db_ddladmin or db_owner (as admin privileges are required to run the utility and create backup tables)
6. Copy the newly created **distweb.dat** file into the **TimeZoneChangeUtility** folder.
7. Copy the **datasource.ini** from the application server into the **TimeZoneChangeUtility** folder.
8. Ensure the file – **TIMEZONE_CHANGE_UTILITY_TABLES.csv**, which is located in the folder – **CSVPath**, has the appropriate data.
 - By default, the CSV file will contain all the tables with date-time fields. If you want add a new table, you can add it after the last row in the file. Use the same format to add a row: ID, TABLE_NAME, IDENTITY_COLUMN_NAME, STATUS, LAST_UPDATED_IDENTITY.
 - If your Rsam instance has the new questionnaire (i.e., Assessment Questionnaire), then you will have to remove the following tables from the file, since they are not available in the new questionnaire and will lead to an error:
 - FI_FINDINGATTRIBUTE_HISTORY
 - FI_MILESTONE_LABEL
 - SYS_SYSLOG_DETAILS
 - SYS_TRANSLATION_LABEL
 - SYS_TRANSLATION_MESSAGE
 - SYS_TRANSLATION_SELECTION

- Ensure all the entries in the STATUS column are **pending** and all the entries in the LAST_UPDATED_IDENTITY column are **0**.
9. Update the **Destination Time Zone** from the backend by running the following database script, since the **Destination Time Zone** field is disabled in the **Time Zone Change Utility** dialog box.

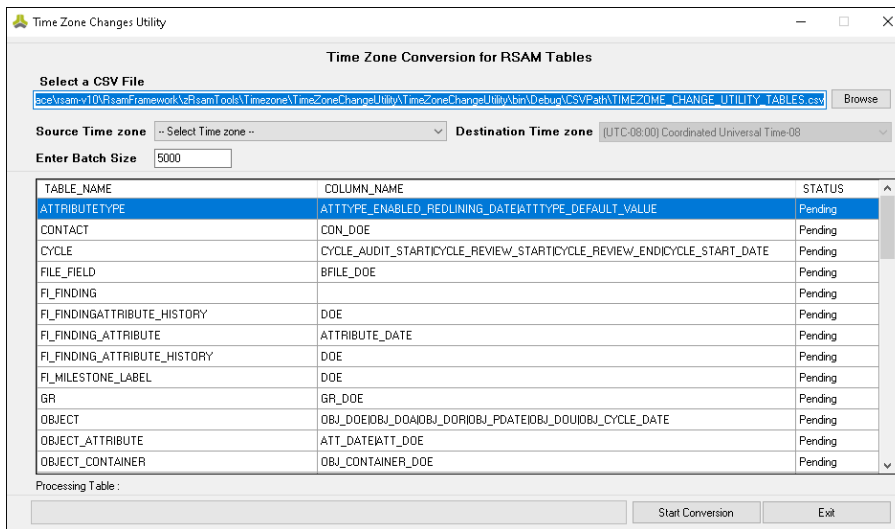
```
UPDATE SYS_OPTION SET OPTION_VALUE = 'Eastern Standard Time' WHERE OPTION_ID = 9099
```

You can change the OPTION_VALUE to the time zone you want.

Executing the Utility

To execute the Rsam Time Zone Change Utility, perform the following steps:

1. Right-click the TimeZoneChangeUtility.exe and select Run as Administrator. The **Time Zone Change Utility** dialog box appears.



2. Ensure the file **TIMEZONE_CHANGE_UTILITY_TABLES.csv** is selected in the **Select a CSV File** field. If not, click **Browse** and navigate to the CSV file.

Note: The information related to the tables on which the conversion must run is obtained from the file – **TIMEZONE_CHANGE_UTILITY_TABLES.csv**. For more information, see [this section](#).

3. In the **Source Time Zone** field, select the time zone value saved in the Rsam Options field, **Database Timezone**.
4. The **Destination Time Zone** is disabled, but it should contain the value set [using the database script in the prerequisites](#).
5. Click **Start Conversion** to start converting the date-time and time values for the tables listed in the CSV file.

On successfully converting the date-time and time attribute values, the status updates to **Completed** against each table name.

6. In case of any errors, refer the log file created in the **Logs** folder in the **TimeZoneChangeUtility** folder.

Notes on the Conversion Process

When the utility is run, the sequence of steps happening in the background are as follows:

1. The utility creates a backup of the data in the specified tables, *before* converting the values. The name of the backup tables created will be in format – **<TableName>_Backup**. This can be used to validate/verify the conversion.
2. The information related to the tables on which the conversion must run is obtained by the utility from the file – **TIMEZONE_CHANGE_UTILITY_TABLES.csv**, which is located in the folder – **CSVPath**.
3. If the conversion is successful, value in the column – **Status** (highlighted in following screenshot) will be changed from **pending** to **Completed**.
4. In case of any error, value in the column – **Status** will be changed from **pending** to **error**. The errors will be logged in the file available in the **Logs** folder.
5. After resolving the errors, on re-executing of the utility, the conversion will continue for tables with status - **error**.
6. If you want to re-execute the utility on tables with status – **Completed**, update the status column for the required tables to **pending** and re-run the utility. The conversion will continue for all new records created after the last execution.

A	B	C	D	E	F
1	ID	IDENTITY_COLUMN_NAME	COLUMN_NAME	STATUS	LAST_UPDATED_IDENTITY
2	1	ATTRIBUTETYPE	ATT_TYPE_ID	pending	0
3	2	GR	GROUP_ID	pending	0
4	3	FI_FINDING_ATTRIBUTE	FINDING_ATTRIBUTE_ID	pending	0
5	4	OBJECT_ATTRIBUTE	OBJ_ATT_ID	Pending	0
6	5	FILE_FIELD	BFILE_FIELD_ID	pending	0
7	6	RA_EVENTHANDLER_ACTION	EVENTHANDLER_ACTION_ID	pending	0
8	7	RA_EVENTHANDLER_CRITERIA	EVENTHANDLER_CRITERIA_ID	pending	0
9	8	SC_TASK	TASK_ID	pending	0
10	9	SC_SCHEDULE	SCHED_ID	pending	0
11	10	SYS_USER	USER_IDENT	pending	0
12	11	SYS_USER_LOOKUP_HISTORY	SYS_USER_LKP_HIST_ID	pending	0