Zimbra iCalendar Migration Guide

The Zimbra Collaboration Suite (ZCS) allows you to convert and migrate Oracle calendars in .ics format to a Zimbra Collaboration Suite Server. Oracle calendars must be exported from the Oracle Calendar Server in .ics format before they can be converted and migrated.

Migrating an exported Oracle calendar to a ZCS Server is a two part process. The first step is using the Zimbra iCalendar Migration Tool to convert .ics Oracle calendar data into a standard .ics format. Once the file has been converted, it can be imported.

This document discusses the Zimbra iCalendar Migration Tool, migration planning, steps to migrate Oracle calendars to a Zimbra Server, alternate methods of importing .ics files, and Zimbra iCalendar Migration Tool log files.

About Zimbra iCalendar Migration Tool

The Zimbra iCalendar Migration Tool converts Oracle Calendar Server (OCS) generated .ics files into standard .ics format.

The Zimbra iCalendar Migration Tool begins the conversion by identifying patterns within RDATE series. Any patterns of DAILY, WEEKLY and MONTHLY recurrences within RDATE series are converted to an RRULE. In the case of recurrences that happen on a specific day of the week, a BYDAY is also added to the RRULE. Any recurrences with limited changes in summary, attendee list, location, date, time, or description are converted to exceptions.

By default, all RDATE series that do not fit a pattern are converted into standalone events with new UIDs. Alternately, the icalmig tool can be run with an option to convert all RDATE series that do not fit a pattern to an RRULE with a YEARLY recurrence, with exceptions are created for each associated occurrence.

The Zimbra iCalendar Migration Tool is run using the **icalmig** command in the Command Line Interface (CLI). The icalmig command can be run in standard mode, or with additional options to further control the conversion process. Standard mode converts a file to standard RFC format, using only default and standard options during conversion. Syntax, description, and examples for icalmig are given below.

icalmig

This tool converts Oracle Calendar Server (OCS) generated calendar files to a standard .ics format, which can then be processed by Zimbra servers. The icalmig tool is stored in **/opt/zimbra/libexec**.

Syntax

icalmig -f <ics file> [options]

Description

Name	Description
-f	**<ics file>** Specifies the .ics file to convert. ***Note:*** *To run **icalmig** in standard mode, use only this argument. Files converted in standard mode use all default and standard options, converting the file to standard RFC format.*
-h	Displays the usage options for this command.
-v	Displays the Zimbra iCalendar Migration Tool version number.
-delrdate	**{1|0}** Deletes RDATEs from the master VEVENT which has RRULE also. A value of 0 turns this option off. A value of 1 turns this option on. This option is on by default.
-exceptions	**{1|0}** Creates exceptions for RDATEs that do not fit a pattern. A value of 0 turns this option off. A value of 1 turns this option on. This option is on by default.
-patternrule	**{1|0}** Creates an RRULE based on pattern found. (E.g. DAILY, WEEKLY, BIWEEKLY) A value of 0 turns this option off. A value of 1 turns this option on. This option is on by default.
-YearlyException	If this option is specified, all RDATE series that do not fit a pattern are converted to an RRULE with a YEARLY recurrence, with exceptions are created for each associated occurrence.

Name	Description
-tz	**{1|0}** Adds a VTIMEZONE component for EST5EDT. All other date-time information will be changed according to this component. A value of 0 turns this option off. A value of 1 turns this option on. This option is off by default. ***Note:*** *At this time, this option does not adjust the GMT timestamp. See Bug 31815 for more current information about the status of this issue.*
-nonStandardDTSTART	**{1|0}** Shifts the master event date to the oldest RDATE if the master DTSTART is not the first RDATE in the series. A value of 0 turns this option off. A value of 1 turns this option on. This option is off by default. ***Note:*** *All occurrences in an RDATE series with a DSTART older than the master event will be skipped during the conversion if this option is off.*
-logpath	**<arg>** Specifies the log file path. The default path is ***/opt/zimbra/log***.

Example

In this example, the Zimbra iCalendar Migration Tool converts the **calendar.ics** file located at **home/myuser/data/**. The logfiles for this conversion will be stored in **/tmp/logs**.

icalmig -f “/home/myuser/data/calendar.ics” -logpath “/tmp/logs”.

Before Migrating

Before you begin the process of converting and migrating OCS generated calendar files to a Zimbra server, you must export the OCS calendar data for each user account in .ics format. The user’s calendar data can be exported using either of the following Oracle tools.

- **The uniical Utility**. For more information about this tool, see the Oracle download page, http://download.oracle.com/docs/cd/B15595_01/collab.101/b14486/migical.htm#BJEEIDDF.
- **Oracle Calendar Desktop Client**. For more information about this tool, see the Oracle Product page, http://www.oracle.com/technology/software/products/cs/htdocs/clientsoft.html.

Migrating an Oracle Calendar to a Zimbra Server

Once you have exported the OCS calendar data to an .ics format, you are ready to begin converting and migrating the .ics files.

Use the following steps to migrate an OCS generated calendar file to a Zimbra Server.

1. Run the **icalmig** command with the .ics file to convert and any additional options desired.

   icalmig -f "/example.ics" [options]

   Note: *After the conversion is successfully finished, the complete path of the output file and the log file are displayed. If this information is not displayed, check the log files for errors.*

2. If you are currently running as root, switch to the zimbra user.

   su zimbra

3. Run the **zmmailbox** command to import the converted .ics file to the Zimbra Server.

   zmmailbox -z -m user@domain.com pru /Calendar ./example.ics.zimbra

The .ics file is now migrated to the Zimbra Server.

Alternate Methods of Importing a Converted .ics File

Two alternate methods of importing a converted .ics file are REST and SOAP calls. To import files using either of these methods, you will need the user name and password of the account to which the .ics file is being imported.

A converted .ics file can also be imported by POSTing the content to REST API. To POST an .ics file to a calendar using cURL, use the following command.

curl -u user_name:password --data-binary @/tmp/new.ics

http://server/service/home/user_name/calendar?fmt=ics

To see more examples of importing using cURL, see the User Migration article on the Zimbra Wiki.

Importing converted .ics files using SOAP is possible using any programming language with SOAP support.

Note: *Zimbra does not recommend using SOAP to import converted .ics files unless you have previous experience programming with SOAP.*

Zimbra iCalendar Migration Tool Log Files

The Zimbra iCalendar Migration Tool automatically creates a detailed log file of each conversion. By default, this log file is saved to **/opt/zimbra/log**. You can modify the path that the log file is saved to using the **-logpath** option when you run the Zimbra iCalendar Migration Tool.

Contacting Zimbra Support

If you are a Network Edition customer experiencing an issue, file a support case through the Support Portal. To provide the highest level of service, please gather the following information before contacting support.

- **Steps for reproducing the problem**. Include steps for reproducing the problem that you are experiencing.
- **Log files**. Attach logs generated in the Zimbra iCalendar Migration Tool Log Files, described in Zimbra iCalendar Migration Tool Log Files on page 4. These logs should only contain logging information gathered while the problem was occurring.
- **Oracle .ics file**. Attach a sample Oracle .ics file exhibiting the conversion problem.

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