



GOOGLE AND EXCHANGE CALENDAR SYNC INSTALLATION GUIDE

Version 2.1



DOCUMENT CONTROL

Document

Google and Exchange Calendar Sync Installation Guide
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Current Version

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Previous Versions

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1. GOOGLE CALENDAR SYNC

1.1 Files

Start Software will install Google Calendar Sync files from the SVN repository "ResourceTrackerGoogleSync".

1.2 Settings

SQL Connection

This is a standard SQL connection which should be pointed to the relevant database server and database.

```
<setting name="SqlConnection" serializeAs="String">
  <value>data source=localhost;Initial Catalog=Quantum_Tracker;Integrated
  Security=True</value>
</setting>
```

Interval Seconds

This is how frequent the application should check for changes and update the calendar.

```
<setting name="IntervalSeconds" serializeAs="String">
  <value>3</value>
</setting>
```

Content Template Path

This is the template file used to merge the content which is visible when clicking into an event in the calendar viewing app (web/mobile/desktop). This will be found in the same directory as the application.

```
<setting name="ContentTemplatePath" serializeAs="String">
  <value>ContentTemplate.txt</value>
</setting>
```

Title Template Path

This is the template file used to merge the title which is visible immediately on the event in the calendar viewing app (web/mobile/desktop). This will be found in the same directory as the application.

```
<setting name="TitleTemplatePath" serializeAs="String">
  <value>TitleTemplate.txt</value>
</setting>
```

DB Type

The DB Type tells the application which version of resource tracker it should work with. There are two possible values:

- SQL_RT3 (using AlphaFiveCalendar and AlphaFiveEvents tables)
- SQL_Legacy (using Staff and Schedules tables).

```
<setting name="DBType" serializeAs="String">
  <value>SQL_Legacy</value>
</setting>
```

DB Types

This is for information purposes only.

```
<setting name="DBTypes_Information_Only" serializeAs="String">
  <value>SQL_RT3, SQL_Legacy</value>
</setting>
```

1.3 Running the Application

Once complete run the application manually or "run in this session" via Always Up and check it is not reporting any errors.

1.4 Logging

Log files can be found in the logs/directory inside the applications installation directory. The larger the number suffix the older the file, so the file without any numbers appended is the most recent set of logs.

1.5 Templating

The title and content of an event can be customised by editing the Content Template and Title Template specified earlier. Fields can be merged (for instance {Project Number}) and static text included. An example of a titletemplate file would contain: {Description} for {Name} [{Project Number}].

Access is available to all fields in the following tables when merging:

- SQL_RT3 Version
AlphaFiveCalendar, AlphaFiveEvents, Projects & Project Types
- SQL_Legacy Version
Staff, Schedules, Projects & Project Types.

2. EXCHANGE CALENDAR SYNC

2.1 Files and Tables

Start Software will install Exchange Calendar Sync files from the SVN repository "exchangeCalendarSync".

An email box must be created and the local Exchange Administrator will need to set the following permission:

```
Get-ClientAccessServer | Add-ADPermission -User DOMAIN\USERNAME -ExtendedRights ms-Exch-EPI-Impersonation
```

If there are any problems, request full admin rights on the email box but the above is preferred for security reasons.

2.2 Settings

Open CalendarSync.exe.config.

Poll Time

How often to check the database for changes.

```
<setting name="IntervalSeconds" serializeAs="String">  
  <value>3</value>  
</setting>
```

Unused

```
<setting name="DebugMode" serializeAs="String">  
  <value>True</value>  
</setting>
```

Auto Discovery

If the URL for the Exchange Web Services service cannot be located, attempt to find the URL automatically by setting this to true and specifying an auto discovery address (use below).

```
<setting name="AutoDiscoverService" serializeAs="String">  
  <value>False</value>  
</setting>
```

Tracker SQL Connection string

The connection string for Tracker.

```
<setting name="SqlConnection" serializeAs="String">
  <value>data source-. \sqlexpress;Initial Catalog=Tracker;Integrated
  Security=true</value>
</setting>
```

Path to the Content Template

The path to the Content Template is based on the location of the exe file. When reading from the mail merge view it will replace the tags within this file to specify the body of the event.

```
<setting name="ContentTemplatePath" serializeAs="String">
  <value>ContentTemplate.txt</value>
</setting>
```

Path to the Title Template

The path to the Title Template is based on the location of the exe file. When reading from the mail merge view it will replace tags within this file to specify the title of the event.

```
<setting name="TitleTemplatePath" serializeAs="String">
  <value>TitleTemplate.txt</value>
</setting>
```

Auto Discovery Address

If the Auto Discovery Service is enabled, it will use this address to locate the exchange web services endpoint.

```
<setting name="AutoDiscoverServiceEmailAddress" serializeAs="String">
  <value>masteraccount@start-software.co.uk</value>
</setting>
```

Service URL

The location of the Exchange Web Services endpoint. This is often the same as their Outlook Web Access URL with OWA replaced with EWS/Exchange.asmx.

```
<setting name="ServiceURL" serializeAs="String">
  <value>https://mail.start-software.co.uk/EWS/Exchange.asmx</value>
</setting>
```


Mail Merge View

The view to read values from when merging the title and content templates.

```
<setting name="MailMergeView" serializeAs="String">
  <value>ExchangeCalendarMerge</value>
</setting>
```

Master Account User ID

The mailbox username.

```
<setting name="MasterAccountUID" serializeAs="String">
  <value>username</value>
</setting>
```

Master Account Password

The mailbox password.

```
<setting name="MasterAccountPWD" serializeAs="String">
  <value>password</value>
</setting>
```

2.3 Running the Application

Run the CalendarSync.exe and view its output. Any errors will be displayed and logged to the install path/logs/folder.

2.4 Setting the Appointment Template

The Exchange Calendar Sync uses the same as the Google Calendar Sync for:

- Title
 - When U Project [Site Name] [Project Number]
 - When Not U Project [Project Types].Name ' for ' [Clients.Name] [Site Name] [Project Number]
- Content
 - {Description} for {Name} [{Project Number}]
 - {Project Notes}
 - {Site Name}
 - {Site Address}
 - {Site Contact Name}
 - {ScheduleNotes}

These are reading from the project, clients and project types, calendar and events tables, as does the Google Calendar Sync, rather than the Event Name and Event Description.