

MazeMap: Meeting Room Visualization and Room Booking Technical Documentation



MazeMap meeting Room Visualization and meeting Room Booking is feature of MazeMap meant to visualize meeting room occupancy and make it easier for users to find available meeting rooms and book meeting rooms with just a click. The overall goal is also to increase meeting room utilization.

This document shows the overall technical architecture and requirements and tasks on the customer's side to get the solution working.

On a high level, the solution fetches the status of a meeting room from a calendar system and superimposes this on MazeMap's map interface as shown below. Users can also select an available room and book it with a "one button" touch. The Meeting Room Visualization can also be combined with sensors or real time occupancy and automatically freeing up meeting rooms not in use, but that is not covered in this document.



MazeMap currently support Outlook 365), Google Calendar and TimeEdit. Other systems can be supported on request. Below Outlook 365 is used as an example.



The identifier that is used to map a meeting room to a place in the map is the "calendar room ID". It is therefore essential that the IDs are identical. If the calendar room ID is identical to the physical room number this would work without any adjustments, however often the calendar room ID is different to the physical room number. Then a list of calendar room IDs must be exported from Outlook and imported into MazeMap as extra information to a Point of Interest (POI).

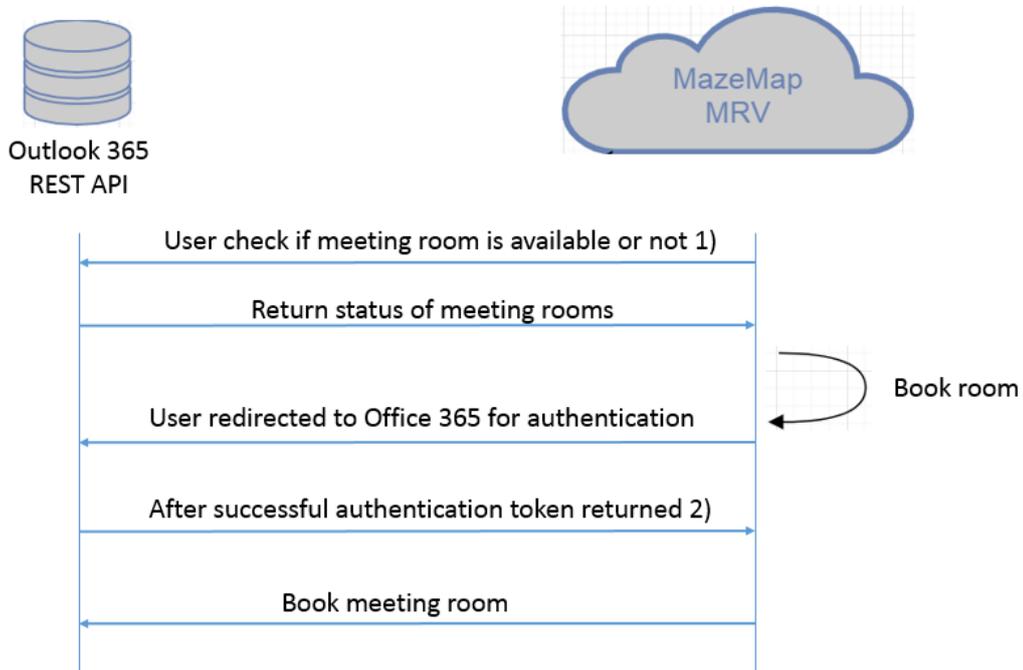
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For the solution to work we have the following requirements for customers:

1. The customers must ensure that either the Calendar room ID is identical to the physical room ID or if not export a list of calendar room that can be matched to a physical room ID. The list of calendar room IDs can be imported into MazeMap POI ID in bulk or in MazeMap's online map editor.
2. The customer must give MazeMap access to a user in Outlook that can have access to seeing "booked" and "not booked" status of all meeting rooms – MazeMap would need the username and password for this account.
3. Customer must open firewall for MazeMap could service to reach the Outlook 365 REST API

Below is a simplified chart flow of the communication between MazeMap and Outlook 365 REST API



- 1) General user that MazeMap get's access to
- 2) Token stored for up to x days, so user remain logged in for 30 days without – this can be overridden with stricter policy with configuration within Office 365

Except for the general user MazeMap doesn't store any individual username or passwords. Authentication for end users is done though redirecting to e.g Office 365 and MazeMap only stores the returned token. The token is only stored given that the end user allows cookies. If the users don't allow cookies, the end user would need to log on for each time he is to book a meeting.