

Parkable | Avigilon Alta integrators white paper

Parkable is a parking management system that's flexible to suit your property needs. Parkable delivers better tenant parking experiences, allows parks to be fully utilized through bay sharing while reducing overall parking administrative headaches. Creating an overall better ROI on car parks. Parkable's integration with Avigilon Alta means that you can enable Parkable's car park management gate access solution with zero additional hardware.

Parkable provides access to the car park by adding and removing a user from the access group that is set up at the time of the integration. This allows all existing Avigilon Alta users to use existing access control methods; badges, mobile credentials, UHF tags, etc but restricts access to only those that have a valid parking session.

Where public user access is required, Parkable creates visitor credentials for each configured entry that can be used from within the Parkable mobile application. Utilising this methodology provides for a full audit trail to be kept within Avigilon Alta and allows for visitor credentials to be revoked if necessary.

The key benefits of Parkable are;

- Reduce time spent on parking administration
- Increase parking occupancy and utilization
- Improved tenant experiences
- Generate extra revenue
- EV charger management

Glossary of terms

Entry

- A physical entry or exit that corresponds to an Entry entity in Avigilon Alta

Parker

- Any user that is currently parking

Parking

- A user that is 'parking' may have an active casual parking session or long term subscription

Park session

- An active casual parking session or long term subscription

Summary

The purpose of the integration is to enable the opening of access gates in Avigilon Alta on behalf of Parkable parkers. Entries may be opened by any of the following means;

- Badging existing physical cards
- Using mobile credentials
- Using the Parkable mobile application

Operation overview

Existing Avigilon Alta users

When a user begins parking they are added to the access group/s provided during integration setup. A 'parkable-mobile' cloud key credential is also added. This credential is used when the parker opens the gate from within the Parkable mobile application.

When the parking session ends, the user is removed from the access group. The 'parkable-mobile' credential is not removed to improve system latency on subsequent park sessions.

Users not currently in Avigilon Alta

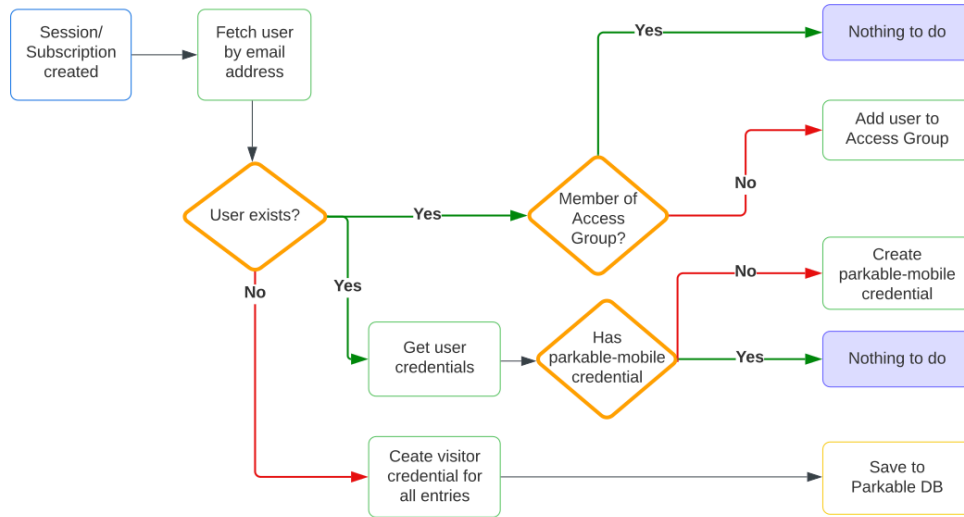
When a member of the public, or a visitor, starts parking and a user entity does not exist, Parkable creates a visitor credential for each of the gates and stores it for later use when the parker opens the gate from within the Parkable mobile application. This visitor token is deleted after use.

Access Groups

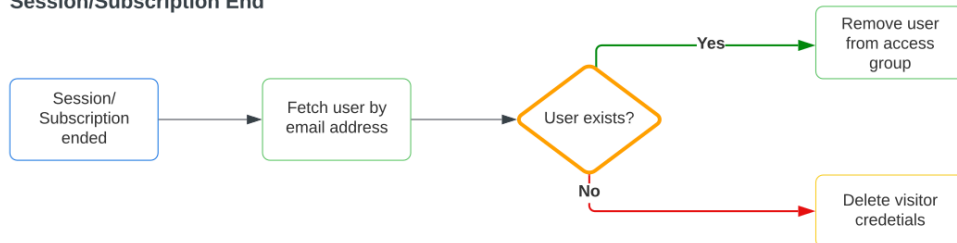
Parkable uses access groups to control a parker's ability to open park entries. One access group can be configured per entry. In Avigilon Alta, each access group will need to be configured with the appropriate zones and entries for correct operation.

Operation sequence

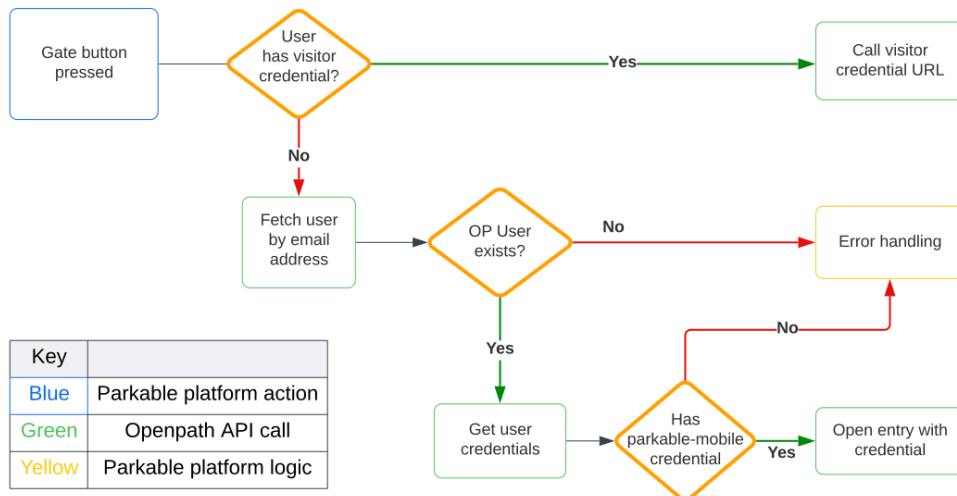
Session/Subscription Start



Session/Subscription End



Mobile app access



Key	
Blue	Parkable platform action
Green	Openpath API call
Yellow	Parkable platform logic

Configuration requirements

This section is primarily for the Avigilon Alta integrator and details the steps required to be undertaken to set up the integration and the data that Parkable needs to complete the integration on our end.

Parkable user

Parkable has a user that will make all API calls on behalf of Parkable and users. This user will need to be added to your Avigilon Alta organisation using the Parkable namespace.

Namespace	org:parkable
Username	openpath@parkable.com

Instructions on how to do this can be found here:

<https://help.openpath.com/space/EHC/1021837313>

Settings

The following settings are required to be set up on the Parkable user that has been created. These are found in Edit User > Access.

Access Groups	All corresponding access groups for the required entries
Override permission	Set to true if you expect Parkable to be able to open entries in the locked state
Remote unlock	Enabled

The user also needs a 'Cloud Key' credential added in the Credentials tab.

Parkable role

A role needs to be created for the Parkable user. Create a role with the below role settings and add the Parkable user you have just created to the role.

Enforce MFA	Off
Limit to specific sites	On - ensure all relevant sites are added
Users permission	Read Write

Existing users

All existing users must have 'Remote unlock' set to enabled in their user settings in the 'Access' tab.

System information

Please provide the detail requested in this section and the Entries section below via the Google form [here](#).

This is the system information that Parkable requires for the integration.

Organisation ID	Avigilon Alta organisation ID, found in the URL when on the 'Dashboard' page
User ID	User ID for Parkable bot user in your Organisation, found in the URL when on the 'Edit user' page

Entries

This is the Entry information that Parkable requires for the integration. There will be one of these for each physical entry.

Entry Name	Friendly and descriptive name of the door, displayed in Parkable application
Entry ID	The Avigilon Alta entry ID, found in the URL of the 'Edit entry' page
Access Group ID	Access group associated with entry ID, found in the URL of the 'Edit access group' page

Event Rules

Parkable supports Avigilon Alta web rules to receive information about events relating to the car park entries and exits. Parkable requires this information to provide car park occupancy and attendance reporting through to the client.

The following JSON can be copied and pasted into a new rule in 'JSON editor' mode. You can create a new rule in the 'Configurations' > Rules section. The trigger type is 'Entry' and the event is 'Entry Unlock Authorized'. Then tick 'Use JSON editor'.

Note: The entry IDs must be separated by a comma. These are found in the URL once you click on an entry,

e.g. <https://control.openpath.com/o/21751/entries/edit?entryId=286444>

Note 2: **YOUR_APPLICATION_API_KEY_HERE** is a Parkable API key that will be provided after the Google Form above is completed.

JavaScript

```
{
  "version": "1.0",
  "trigger": {
    "properties": {
      "event": {
        "enum": [
          "entry.authorized",
          "entry.authorized.failed",
          "entry.unlocked",
          "entry.unlocked.failed"
        ]
      }
    },
    "required": [
      "event"
    ],
    "data": {
      "allOf": [
        {
          "properties": {
            "_type": "entry",
            "entryIds": {
              "contains": {
                "enum": [
                  <YOUR ENTRY IDS HERE>
                ]
              }
            }
          }
        ]
      }
    }
  }
}
```

```
    }  
  },  
  "requests": [  
    {  
      "type": "http",  
      "blocking": false,  
      "preRequestDelaySeconds": 0,  
      "httpParams": {  
        "headers": [  
          "User-Agent: Openpath/Rules Engine",  
          "Content-Type: application/json",  
          "Authorization: <YOUR_APPLICATION_API_KEY_HERE>"  
        ],  
        "method": "post",  
        "url": "https://api.parkable.com/openpath/events",  
        "body": "{{json event}}"  
      }  
    }  
  ]  
}
```