
Location Check-in

Overview

The Location Check-in product integration allows users to easily capture their last visited locations using a mobile QR scanner to create a digital diary of the locations they visit.

Note

- Location Check-in PI requires an authenticated profile, so it cannot be used for guest profiles.
 - Only one Product Integration instance can be deployed per app.
-

Vendors

The Location Check-in product integration is currently supported either as a self-contained service hosted by Ex Libris Cloud or by the RESTful API (generic) vendor.

User Experience

The following section describes information relating to the user experience for the Location Check-in product integration.

User Activities

- Students can scan a QR code to capture a new visited location.
- Students can manually enter a location code to capture a newly visited location.
- Students can see their visited location history.

Authentication

Additional user authentication is not necessary. Authentication with your system should be based on the API authentication. See [Authentication Type](#).

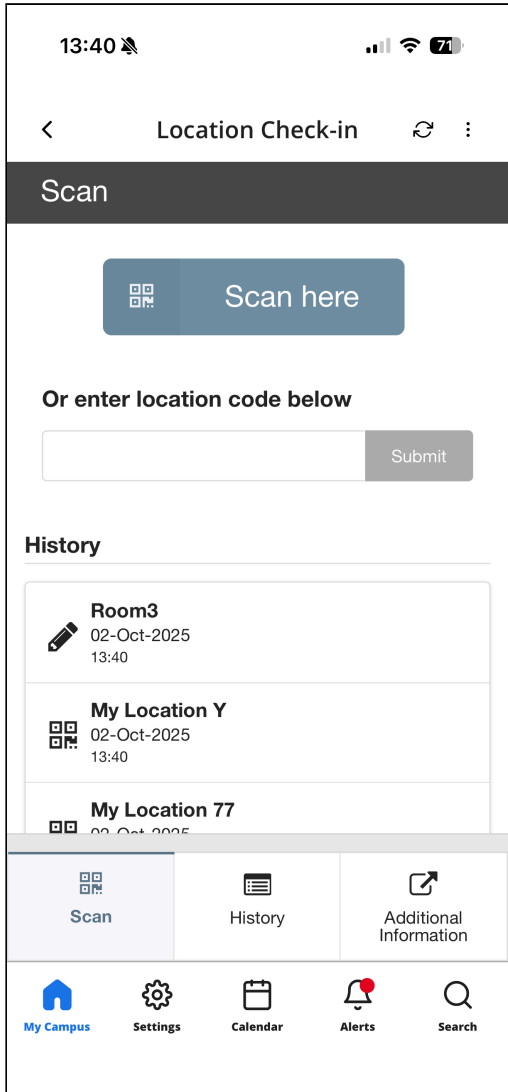
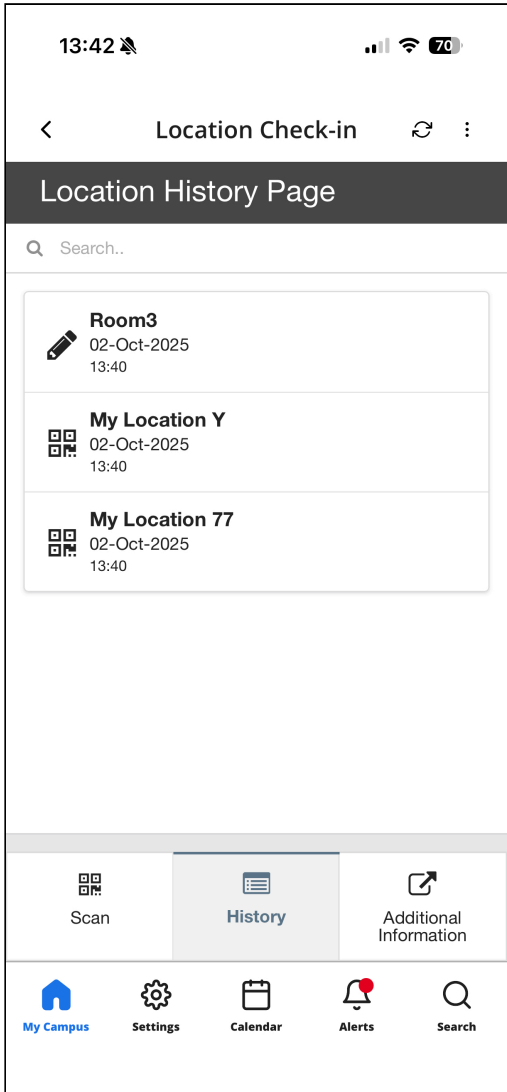
Offline Support

The Location Check-in product integration is not supported offline.

Main Workflows and Screenshots

The Location Check-in product integration contains the following main functionalities:

- Scan a QR code, or manually enter a location code when visiting a new place to store the location
- Review location history and search for locations or places I visited on a specific date

The Location Check-in landing page displays the Scan button and last scanned locations	The Location History page displays data for the number of days as was configured by the university. The user can search by location, name, and date.
	

Technical Overview

The following section describes technical information for the Location Check-in product integration.

Prerequisites

The following prerequisites are required for the Location Check-in product integration.

- For RESTful API (generic) vendor the APIs as described below should be available. See [API Information](#). If campusM Cloud vendor is used no APIs prerequisites.
 - QR code should include the following data in a JSON format - userID, locationName, description, locationId

For example:

```
{
  "locationName": "Presentation Pod 100",
  "description": "2 seats",
  "locationId": "12345",
  "campusID": "11"
}
```

All four attributes are not mandatory.

- For manual code entries, only letters, numbers, spaces, and the following characters: -./_ are valid entries.

API Information

The Location Check-in product integration uses the following APIs:

- Get User's History – mandatory
- Send User's Location's – mandatory
- Delete User Location – not mandatory

Get User's History API

Request:

```
https://{Base URL}/UserApi/api/users/
getUserLocations?userid={userID}&startDate={startDate}&endDate={endDate}
```

- The date range is a maximum of 7 days
- Base URL – the URL to retrieve as defined in the product integration configuration
- userID – the user identifier as defined in the Query Parameters.
- The format of startDate and endDate should be: {yyyy-MM-ddTHH:mm:ss+Z}, for example: 2020-09-02T09:55:15+03:00.

Expected response:

The response should be similar to the following:

```
{
  "userLocationsList": {
    "location": [
      {
        "campusID": "",
        "locationName": "",
        "time": "2019-12-30T09:30:15+0200",
        "userID": "a@google.com",
      }
    ]
  }
}
```

```

        "locationId": "12345",
        "serialNumber": "1"
    },
    {
        "campusID": "",
        "locationName": "",
        "time": "2019-12-30T09:30:15+0200",
        "userID": "a@google.com",
        "locationId": "14542",
        "serialNumber": "2",
        "source": 1
    }
]
}
}

```

Response attributes Mapping:

Attributes Mapping

Attribute	Description	Mandatory Yes/No	Data Type	Default	Example
campusID	campus ID	No	String		
locationName		Yes	String		
time	scan time	Yes	String according to the following format: yyyy-MM-ddTHH:mm:ss'Z'		2019-12-29T07:30:00+0200
userID	The user identifier that matches the equivalent attribute on IDP (see Prerequisites # 1).	Yes	String		
locationId	Location ID	Yes	Number		
serialNumber	Scan ID number	Yes	Number		
source	How the location was added: <ul style="list-style-type: none"> 0=scanned by QR code 1=manually entered location code 	Yes	Number		

Send User's Location API (POST)

Request:

`https://{BASE URL}/UserApi/api/users/updateUserLocation`

Body:

```
{
  "userID": "a@google.com",
  "locationId": "54321",
  "locationName": "Presentation Pod 5"
  "time": "2019-12-30T11:00:00+0200"
  "description": "2 seats"
  "campusID": "",
  "source": 0
}
```

Attributes Mapping

Attribute	Description	Mandatory Yes/No	Data Type	Default	Example
UserId	The user identifier that matches the equivalent attribute on IDP (see Prerequisites # 1).	Yes	String		
locationName	Location Name	Yes	String		Conference Room 1
Description	Description	Yes	String		
Time	Time of check-in	Yes	String according to the following format: yyyy-MM-ddTHH:mm:ss'Z'		2019-12-29T07:30:00+0200
Source	How the location was added: <ul style="list-style-type: none"> • 0=scanned by QR code • 1=manually entered location code 	Yes	Number		

Expected response:

Response should include failure/success indication in the following format:

```
{
  "userid" : "a@google.com",
  "locationId" : "54321",
  "response": "location successfully added!" //if success, 'response' must contain
the string "Successfully", otherwise it'll be considered as failure
}
```

Delete User Location API

Request:

campusM should send the following web service:

`https://{BASE URL}/UserApi/api/users/deleteUserLocation`

Body:

```
{
  "userID": "a@google.com",
  "locationId": "54321",
}
```

Expected response:

Response should include failure/success indication in the following format:

```
{
  "userID" : "a@google.com",
  "locationId" : "54321",
  "response": "location successfully deleted!" //if success, 'response' must contain
the string "Successfully", otherwise it'll be considered as failure
}
```

Authentication of all APIs is included in the headers, as configured in [Authentication Type](#).

Product Integration Configuration

To configure the Location Check-in product integration, select **Product Integrations > Add Product Integration** and select **Location Check-in**.

The following table describes the configuration options available on this page.

Configuration Option	Description	Mandatory	Data Type	Default	Example
Manage Integration					
Enable Product Integration	Select to enable the product integration on the user's campusM app.	No	Checkbox	Unchecked	
Product Integration Description	A description of the product integration for internal use	Yes	String		
Screen Title	The title that appears in the top header of the service	No	String	Registration Status	
API Configuration					
This section contains the API details to define the API structure. You can test the API configuration. See Testing API Product Integration Configuration .					
Base URL to retrieve the information	The URL for the API	Yes	URL		https://{HOST}
Parameter Input Option	The parameter input option. Possible values: Username, Token Property, and Constant. It is sent as the path parameter	Yes	Drop-Down list		Token Property
Token Property	Enter the property name to be retrieved from the	No	String		USERNAME

Configuration Option	Description	Mandatory	Data Type	Default	Example
Name	token ({ USERNAME, MAIL, GIVEN_NAME, SURNAME, FULL_NAME } or as named in the integration profile)				
Constant Value	The value when the User Identifier is set to Constant	No	String		
Authentication Type	<p>Authentication type against the web service. The options are the following:</p> <ul style="list-style-type: none"> No Auth Basic – username and password for Base64 basic authentication API Key – can be added to a Header or to the URL (Query Param) or both Bearer token OAuth Using User App Authentication – select an OAuth integration profile (from the Integration Profiles configured in App Settings) and choose where the access token should be added, Header or URL OAUTH Using Client Credentials – select this if you are using a preliminary token call to get the access token 	No	Object		No Auth
General					
Enable Manual Location Code Entry		No	Checkbox	Unchecked	
Total number of days available to view in Locations History	The total number of days for Locations History. The value should be between 1 and 28.	No	Number	5	
Data Retention Policy	How long Location Check-in data is retained in the Ex Libris campusM cloud	No	Number	30	
Date Format	The format to display any dates in, throughout the integration	No	Drop-Down list		
Number of records to show initially in Locations History	Number of records to show in Locations History at the beginning	No	Number	10	
Number of additional records to load on each click of the Load More Results Button	Number of records to load on each click of the 'Load More Results' button, should be between 2 and 5	No	Number	5	

Configuration Option	Description	Mandatory	Data Type	Default	Example
Display Cancel Button	'Cancel' button allows users to delete logged location and triggers deleteUserLocation API	No	Checkbox	Unchecked	
Additional Information URL	URL for Additional Information/ Help tab (link out)	No	String		
Look and Feel					
Primary Theme Color	Select a color for the main elements on the page	No	Color Picker	#444444	
Secondary Theme Color	Select a color for the secondary elements on the page	No	Color Picker	#6f8ea4	
Text / Labels Enter replacement text for the default titles and labels					
Landing Page Title		No	String	Landing Page	
Location History Page Title		No	String	Location History Page	
Scan Button Text for Mobile		No	String	Scan Here	
Scan Button Warning Message for Web		No	String	Can only be scanned using a mobile phone	
Enter Location Code text for Mobile		No	String	Enter location code below	
Enter Location Code text for Web		No	String	Enter location code below	
Submit Button Text		No	String	Submit	
Error Message Text for Manual Code Entry		No	String	Location code can only contain letters, numbers, spaces, and the following characters: _./-	
Home Page History Title		No	String	History	
Load More Results Button Text		No	String	Load More	
Error Message	General error message if the page fails to load	No	String	Please try again	

Configuration Option	Description	Mandatory	Data Type	Default	Example
				later	
Empty Results Message	The Empty Results Message displays when no results are returned for the Location History	No	String	There is no location history for this user	
No Search Results Message	This message displays when a user's search term returns no results	No	String	No results	
QR Scan Success Message	This message displays when the QR code scans successfully	No	String	Your location was submitted successfully	
QR Scan failure Message	This message displays when the QR code fails to scan	No	String	Adding location failed – please try again later	
Cancel Button		No	String	Cancel	
Main Menu Bar Additional Information Label		No	String	Additional Information	
Main Menu Bar Scan Label			String	Scan	
Main Menu Bar History Label			String	History	
Import/ Export Configuration You can configure product integration and then export it to another campusM environment, for example, from sandbox to production or from preview to production.					
Export	Create a JSON file with all product integration configuration	No			
Import	Use this option in order to load configuration from JSON of an exported product integration	No			

Getting Location Check-in Results

For information about extracting Location Check-in response data, see [Get Location Check-in Results](#).