

Holds

Overview

The Holds product integration allows students to view information related to their university holds.

Vendors

The Holds product integration currently supports the following vendors:

- [Ellucian Banner \(XE\)](#)
 - [Ellucian Colleague \(Custom\) ERP Systems](#)
 - Ellucian Colleague (Web API)
 - Oracle PeopleSoft
 - RESTful API
-

User Experience

The following section describes information relating to the user experience for the Holds product integration.

User Activities

- Students select the **Holds** tile and their holds information is displayed.
 - The total number of holds is displayed for students on the **Holds** live tile.
-

Authentication

The Holds product integration requires the user's identifier from the vendor's system. This is obtained with token-based authentication attributes.

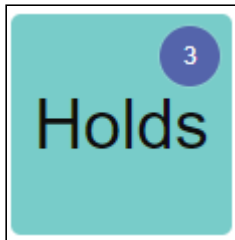
The connection to the vendor is handled as part of the generic API Configuration component (in App Manager, in the product instance). This is found under the Vendor section on the configuration page.

Offline Support

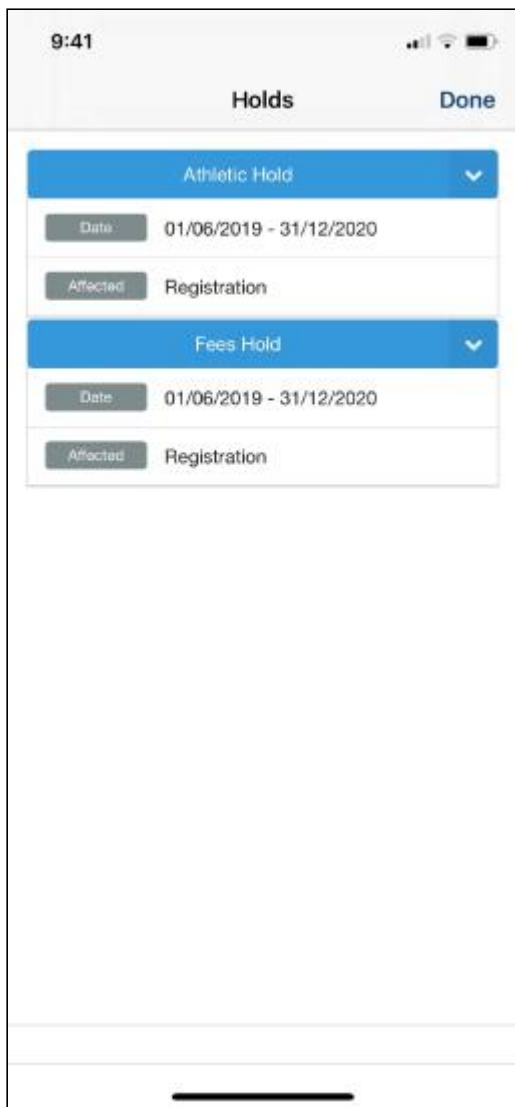
No offline support is provided, since the data would not be current, and it is preferable to have no data rather than potentially inaccurate data.

Holds End-User Interface

The following are the two components of the Holds user interface, as seen by the student. The **Holds** tile shows that the student has three holds. When the student selects the tile, the Holds page opens and displays details about their holds.



Holds Live Tile



Holds Page

Technical Overview

This section describes technical information for the Holds product integration.

Prerequisites

The following prerequisites are required to configure the Holds product integration:

- User identifier mapping
 - If you have CMAuth configured, map the relevant vendor ID in the integration profile (Additional Mapping), for example: `bannerId=employeeID`, where `employeeID` is the relevant user attribute on the vendor's backend system.
 - If you have LDAP configured, verify that the relevant attribute is returned as an attribute from the LDAP response.
 - Map the relevant user ID in the integration profile for the app profile.
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Required Format

Select one of the following links to learn about the required format for that vendor:

- [Ellucian Banner 9 Vendor](#) (Also referred to as "Banner XE")
- [Ellucian Colleague \(Custom\) Vendor](#)
- [Ellucian Colleague \(Web API\) Vendor](#)
- [Oracle PeopleSoft](#)
- [RESTful API](#)

Ellucian Banner 9 (XE) Vendor

- campusM uses the following API call to fetch the Holds data:

```
https://{host}/StudentApi/api/students/{userId}/holds
```

- The following is an example of a JSON response for the Holds API:

```
[
{
  "fromDate": "2019-06-01",
  "holdTypeCode": "AT1",
  "holdTypeDescription": "Athletic Hold1",
  "processAffectedDescription": [
    "Registration"
  ],
  "reason": "contact ext.2540",
  "toDate": "2020-12-31"
},
{
  "fromDate": "2019-06-01",
  "holdTypeCode": "AT2",
  "holdTypeDescription": "Athletic Hold2",
```

```
    "processAffectedDescription": [
      "Registration"
    ],
    "reason": "contact ext.2540",
    "toDate": "2020-12-31"
  }
]
```

Ellucian Colleague (Custom) Vendor

- campusM uses the following API call to fetch the Holds data:

```
https://{host}/ColleagueApi/students/0938734/holds
```

- The following is an example of a JSON response for the Holds API:

```
[
  {
    "Type": "SA",
    "Description": "Student Accounts Hold"
  }
]
```

- A direct connection to the Ellucian Colleague (custom) API is required. Any middleware or client-specific implementation causes the API response to deviate from what the cloud platform is expecting.

Ellucian Colleague (Web API) Vendor

- campusM uses two API calls to fetch the grades data:
- The first call is because the Colleague Web API authenticates via a session token:

```
https://{HOST}/colleagueApi/session/proxy-login
```

- The second call is to retrieve all holds for the student:

```
https://{HOST}/colleagueApi/students/{username}/restrictions
```

Oracle PeopleSoft

- Create a PeopleSoft query that meets the following requirements:
- The API call must be in the following format:

```
GET https://{host}/PSIGW/RESTListeningConnector/ExecuteQuery.v1/PUBLIC/{query name}/JSON/
NONFILE
```

E.g. `https://satest.academyart.edu/PSIGW/RESTListeningConnector/ExecuteQuery.v1/PUBLIC/AAC_CM_STUDENT_TERMS/JSON/NONFILE`

- These are the query parameters that need configuring:

```
isconnectedquery: N
```

```

maxrows: 0

prompt_uniquepromptname: USER_ID

prompt_fieldvalue: {USER_ID value as a Token Property}

json_resp: true

```

RESTful API

- campusM uses the following API call to fetch the Holds data:

```
https://<BASE_URL>/<PATH>?userId=<USER_ID>
```

- The following is an example of a JSON response for the Holds API:

```
[
  {
    "fromDate": "2019-01-01",
    "reason": "this is a reason",
    "processAffectedDescription": ["desc1", "desc2"],
    "toDate": "2020-01-01",
    "holdTypeCode": "code",
    "holdTypeDescription": "description"
  }
]
```

Configuration

The following table describes the configuration options available for the Holds product integration.

Note that while the majority of these fields are not mandatory, they are displayed with their default values unless otherwise stated.

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	Appears in the top header (of the integration, in the app).	No	String	Holds	
Vendor					
Vendor Name	Defines to which vendor the integration connects	Yes	Drop-down list		Colleague

Configuration Option	Description	Mandatory	Data Type	Default	Example
API Configuration - for Banner XE and Colleague (Custom)					
This section contains the API details to define the API structure. You can test the API configuration. See Adding a Product Integration .					
Base URL to retrieve the information	The URL for the API server	Yes	URL		https:// /{HOST}
Parameter Input Option	The parameter input option for Banner ID or Ellucian Colleague (custom). Possible values: Username, Token Property, and Constant. It is sent as the path parameter.	Yes	Drop-Down list		Token Property
Authentication Type	Select one of the following options: <ul style="list-style-type: none"> No Auth Basic - username and password for Base64 basic authentication. 	Yes	Drop-down list		
API Configuration - for Colleague (Web API) and Oracle PeopleSoft					
URL to retrieve the information	The URL for the API server.	Yes	URL		https:// {HOST}
URL Query Parameters	Any query parameters required.	No	Parameter		
URL Path Parameters	Any path parameters required.	No	Parameter		
General Headers	Any additional headers required. Note - when using the Colleague Web API , we require one to be configured: Header Key: X-CustomCredentials Header Value: colleaguewebapitoken The Header Key can be changed if your Colleague server accepts a different key name, but the Header Value cannot be changed.	Yes	Header		
Authentication Type	Select one of the following options, according to your Colleague server setup: <ul style="list-style-type: none"> No Auth Basic Auth 	No	Drop-down list		No Auth
Parameter Input Option	The parameter type for Colleague ID required for the Colleague Web API. Possible values: Username, Token Property, and	Yes	Drop-down list		Username

Configuration Option	Description	Mandatory	Data Type	Default	Example
	Constant. Typically this is the user's "username" attribute.				
Token Property Name	If "Token Property" is selected for Parameter Input Option, enter the property name to be retrieved from the token ({ USERNAME, MAIL, GIVEN_NAME, SURNAME, FULL_NAME } or as named in the integration profile).	Yes (if Token Property)	String		username
Web API - for Colleague (Web API) only					
Proxy ID	Required to fetch the session token.	Yes	String		
Proxy Password	Required to fetch the session token.	Yes	String		
Token Expiry	The time in hours to store a web API session token for, up to a maximum of 24 hours.	No	Integer	1	
Holds Page					
More Details Button Link	This will redirect the user out of the campusM app to the target URL	No	Checkbox	Selected	
More Details Page URL	Specify the external URL of the vendor website	Mandatory if More Details Button Link was selected	String		
Open More Details Link Externally	Determines whether the link opens in-app or in the user's external browser	No	Checkbox	Unselected	
Input Date Format	The format of the dates coming back from the API	No	Date format	YYYY-MM-DD	
Display Date Format	The format in which to display time throughout the integration	No	Time format	hh:mm hh:mm a	
Additional Fields					
Code	The code as returned in JSON	Yes	String		
Label	The label for this field	Yes	String		
Display if empty	Select to display the field even when it has no data	No	Boolean	False	
Live Tile	Live Tile	Live Tile	Live Tile	Live Tile	Live Tile

Configuration Option	Description	Mandatory	Data Type	Default	Example
Enable Live Tile	Select to enable holds Live Tile	No	Boolean	False	
Badge Color		No	Color Picker		#4d194c
Look and Feel					
Primary Theme Color	Used for the Screen Title header and other header elements.	No	Color Picker	#444444	
Secondary Theme Color	Used for the Grade block headers.	No	Color Picker	#6f8ea4	
Text / Labels	Enter replacement text for the default titles and labels	No	String		
Holds Page Title	The page title	No	String	Holds	
Affected Text	Used for the Affected block header	No	String	Affected	
Date Label	Used for the Date block header	No	String	Date	
More Details Button Link	If the more details button link is enabled, this controls the text user sees	No	String	Go to website	
No Data Message	This message will appear when there is no holds data for the user	No	String	No holds found	
Service Failure Message	This message will appear when the integration is unable to reach or process the service call correctly.	No	String	The page is having trouble fetching your holds – please try again shortly	
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			