

amoeb RTLS

REST API Guide



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If you have any questions or comments, or need assistance from Technical Support, please contact Position Imaging, Inc. at their toll-free number: 1-855-662-8777.

Or, email: support@position-imaging.com.

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About the amoebaRTLS REST API

The amoebaRTLS API is a REST API used to help you manage your RTLS devices and Nucleus software as part of your app development.

A security token is required to access this API. Once you register with Position Imaging, Inc., using your email and a password, you will gain access to use our amoebaRTLS REST API.

Getting Started

The first thing you have to do is request an access token from the amoebaRTLS API. All subsequent requests to the API must include your token as an Authorization header. The token is good for 10 hours, and at that point must be re-requested.

REST calls using an expired or invalid token will always return error code 401: Unauthorized.

The code used in the amoebaRTLS REST API reflects the most current release of the product. The code pages include sample code and references (parameters, descriptions, and responses) to help you get started.

To get the most up-to-date amoebaRTLS API, click the link below or copy the URL into a Browser's address bar:

https://pinucleus.eastus.cloudapp.azure.com/docs

Sample code (Javascript) requesting a Token:

```
var apiKey;
function requestToken() {
  var xhr = new XMLHttpRequest();
  xhr.open('POST', API_URL + 'token', true);
  xhr.setRequestHeader("Content-Type", "application/x-www-form-urlencoded; charset=UTF-8");
  xhr.onload = function() {
   if (xhr.status == 200) {
     let json = JSON.parse(xhr.response);
     apiKey = json.token;
  }
  };
  xhr.send('email=' + YOUR EMAIL + '&pass=' + YOUR_PASSWORD);
}
```

The below function requests information on all of your Pods, using an access token:

```
function getPods() {
 let xhr = new XMLHttpRequest();
 xhr.open('GET', http://pinucleus.eastus.cloudapp.azure.com/api/v1/pods', true);
 xhr.setRequestHeader("Content-Type", "application/json");
 xhr.setRequestHeader("Authorization", "Bearer " + apiKey);
 xhr.onload = function() {
  switch(this.status) {
   case 200:
    //print out pod data to console
    console.log(xhr.response);
    break:
   case 401:
    // token has expired! Need to request a new one before we can access pod information.
    break:
  }
 };
 xhr.send();
```



To test out a request for a Token:

1. Click on the link to the amobeaRTLS REST API.

Note: Bookmark this link for future use.

- 2. From the **Token** field, click the **POST** parameter.
- 3. Click **Try it out**.
- 4. Enter your registered email and password as POST parameters.



Figure 1: Email and password as POST parameters

5. Then click Execute.

A box will appear showing the output of the request, including the new token.

6. From the main API page, click the **Authorize** button.

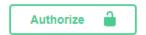


Figure 2: Authorize button

The Available authorizations window opens.

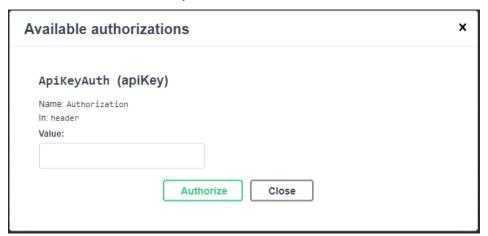


Figure 3: Available authorizations window

7. In the Available authorizations window, enter "Bearer plus your new token". For example: Bearer 453498x9c8g0df980980958e989f89fgcvbv9b

Note: "Bearer" is text that the API expects when you send for a token, similar to a label.



8. Click Authorize.

You now have access to the amoebaRTLS REST API. This access is good for 10 hours. After 10 hours or if you exit the API, you will need to request a new token.

If you receive an error after you click Authorize, review the information you entered and try again.

Contact Us

Contact Position Imaging Technical Support with any questions:

Email: support@position-imaging.com

Phone: 1-855-662-8777