

test article preprod

Overview

The QR Code Associations API provides the functionality to retrieve asset information based on the QR code assigned to an asset.

Important! QR code associations are created by Caterpillar. Non-Caterpillar users (for example, dealers) can use the API to retrieve the asset information that can then be consumed by their applications.

Workflow

Each manufactured machine is assigned a QR code. The QR code is associated with the basic information about the machine, such as build year, manufacturer and product family, etc. The information can be accessed by scanning the QR and navigating to an encoded web URL, as in this example QR code for Caterpillar 926M wheel loader:



Scan here

The encoded URL in this example is [HTTPS://QR.CAT.COM/CMDZ18G9RYCCW8Y](https://qr.cat.com/cmdz18g9ryccw8y).

When the user scans the QR code in this example, they are redirected from the encoded URL to a Caterpillar web application page that makes the call to QR Code Associations API to retrieve the asset information and displays it.

To retrieve the asset metadata with the QR Code Associations API use this workflow:

1. Read the URL from the scanned QR code attributes. In the example above it is [HTTPS://QR.CAT.COM/CMDZ18G9RYCCW8Y](https://qr.cat.com/cmdz18g9ryccw8y).
2. Parse the QR code association ID from the URL. In the example above, it is [CMDZ18G9RYCCW8Y](#), after the last forward-slash (/).
3. Use the QR code association ID with the [GET /qrCodeAssociations/{qrCodeId}](#) endpoint to retrieve asset information.

Note: QR code associations link QR Codes to existing assets (by asset serial number and make). If make is not provided, the default is set as CAT.

Subscribing to the API

To access the QR Association API, you must first request a subscription:

- Fill out the [API Subscription Request Form - QR Association API](#).
- The form will open in a new window without closing this page.
- You may be asked to login to the Digital Marketplace again before completing the form.
- After completing your subscription, you may close the subscription window to return to this page.
- You will receive an email with your credentials when your subscription is approved. This process may take approximately two (2) weeks.

Security

The API uses the OAuth 2.0 protocol for authorization. In order to access the API, an OAuth access token is required in the request headers of each API call. A valid OAuth client ID and client secret is required to obtain an OAuth access token.

The following basic information is required to authenticate and generate the token.

Field	Value
Grant Type	Set this to "client_credentials".
Token URL	https://fedlogin.cat.com/as/token.oauth2
Client ID	Your application's Client ID. Contact your credentials owner.
Client Secret	Your application's Client Secret. Contact your credentials owner.

An OAuth token expires after 60 minutes. An expired token will need to be replaced with a new token.

Additional OAuth information can be found in [Caterpillar OAuth 2.0 Documentation](#)