



GS1 US Data Hub | Product

Solution Providers Guide to Managing Enhanced Content

This guide is specifically written for Solution Partners who are certified under the CCP program and augments current GS1 US Developer API documentation. For information on the program, please contact us at CCP@gs1us.org.

Version 4.5
July 22, 2019

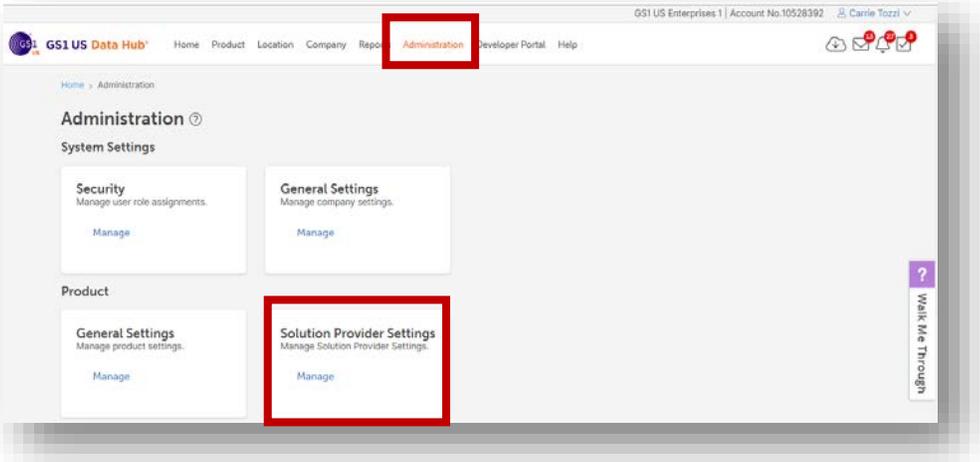
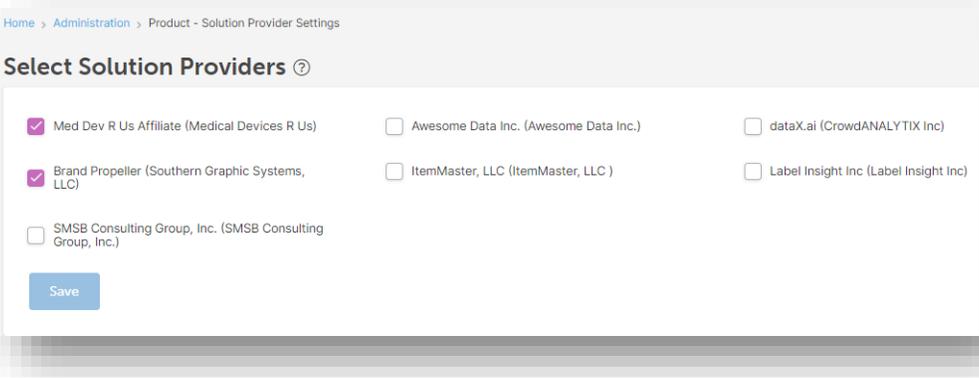
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Brand Owner Experience

How A Brand Owner Selects A Solution Provider

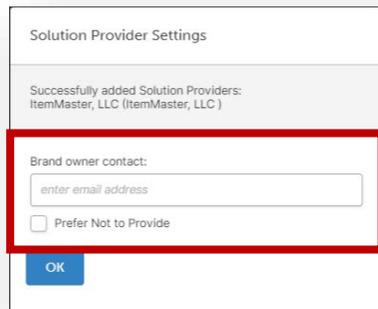
After you negotiate your business agreement, a Brand Owner must take steps to ensure they select you as their CCP. These are the steps the Brand Owner initiates to get started.

Step	Action
1.	<p>A Brand Owner will assign their chosen Solution Provider from the main menu in GS1 Data Hub in the Administration screen, by clicking on Manage under the Solution Provider Settings:</p>  <p>The screenshot shows the GS1 US Data Hub interface. The top navigation bar includes 'Home', 'Product', 'Location', 'Company', 'Repo', 'Administration', 'Developer Portal', and 'Help'. The 'Administration' menu item is highlighted with a red box. Below the navigation bar, the 'Administration' section is displayed. Under 'System Settings', there are 'Security' and 'General Settings' cards, each with a 'Manage' button. Under 'Product', there are 'General Settings' and 'Solution Provider Settings' cards, each with a 'Manage' button. The 'Solution Provider Settings' card is highlighted with a red box. A 'Walk Me Through' button is visible on the right side of the page.</p>
2.	<p>A list displays with available Solution Providers who participate in the Certified Content Provider Program. The Brand Owner clicks the box to the left of the company name to select that CCP and clicks Save.</p> <p>In this example, Med Dev R Us, a test company, and Brand Propeller, have been selected for illustrative purposes.</p>  <p>The screenshot shows the 'Select Solution Providers' screen. The breadcrumb trail is 'Home > Administration > Product - Solution Provider Settings'. The title is 'Select Solution Providers'. There are six checkboxes with company names: 'Med Dev R Us Affiliate (Medical Devices R Us)' (checked), 'Awesome Data Inc. (Awesome Data Inc.)' (unchecked), 'dataX.ai (CrowdANALYTIX Inc)' (unchecked), 'Brand Propeller (Southern Graphic Systems, LLC)' (checked), 'ItemMaster, LLC (ItemMaster, LLC)' (unchecked), and 'Label Insight Inc (Label Insight Inc)' (unchecked). There is also an unchecked checkbox for 'SMSB Consulting Group, Inc. (SMSB Consulting Group, Inc.)'. A 'Save' button is at the bottom left.</p>

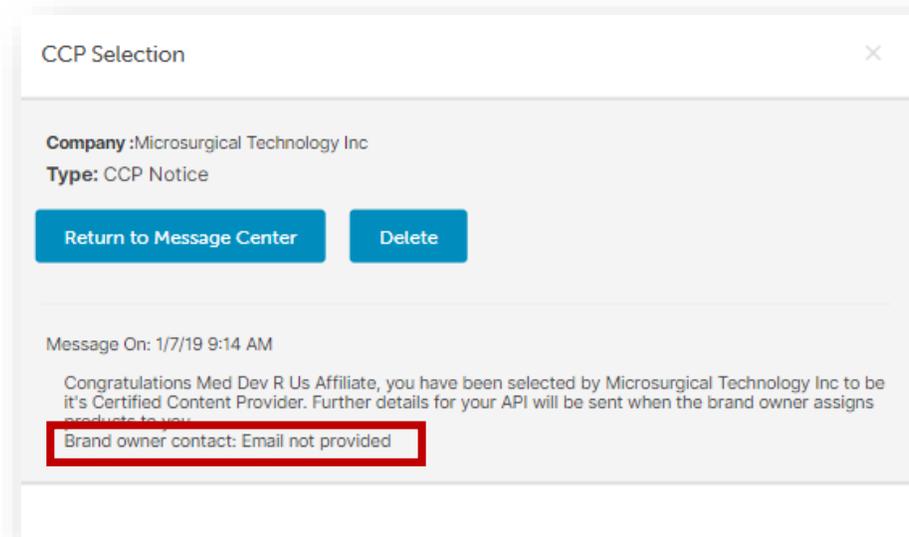
3. The **Solution Provider Settings** dialog box displays to confirm the Brand Owner's selection and allows them to enter an email address. The Brand Owner may elect not to provide an email address by checking the box "Prefer Not to Provide".

The Brand Owner must act otherwise an error will display until one or the other action is taken. As a **best practice**, we recommend the Brand Owner provide an email address so that the Solution Provider can confirm receipt.

The Brand Owner clicks **OK** to close the confirmation window.

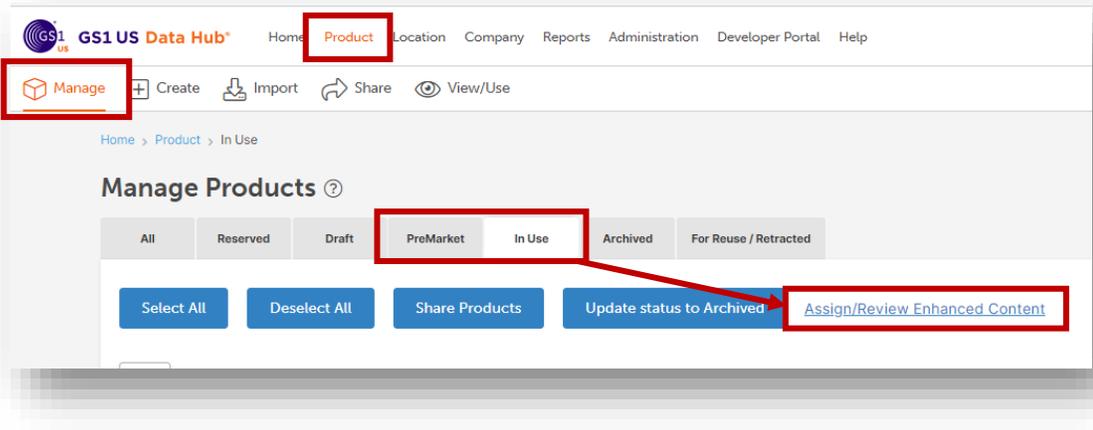
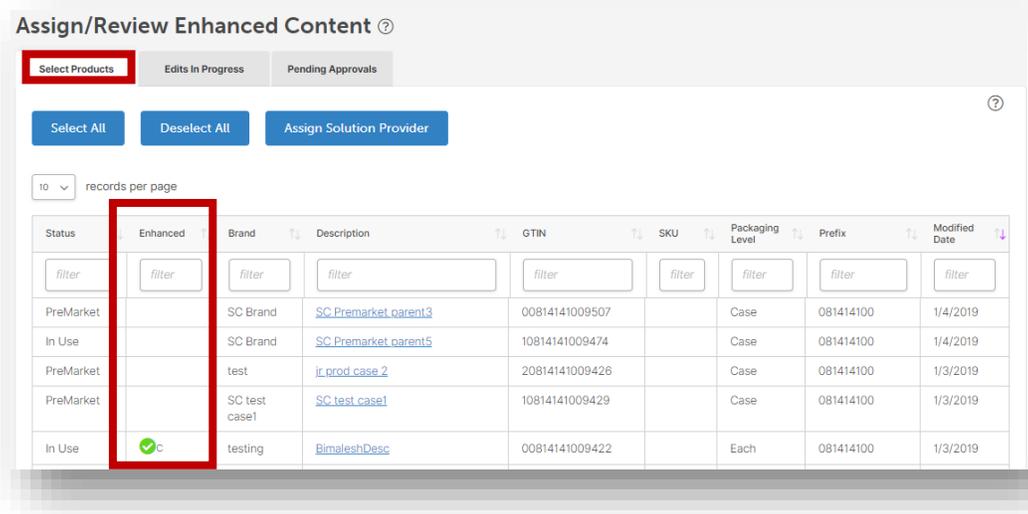


4. GS1 US Data Hub then initiates and sends a CCP Selection notification and email to the Solution Provider informing that they have been selected by the Brand Owner company. This notification contains the email address provided or the note "Email not provided" as shown in the sample below.



How a Brand Owner Assigns Product Records to a Solution Provider

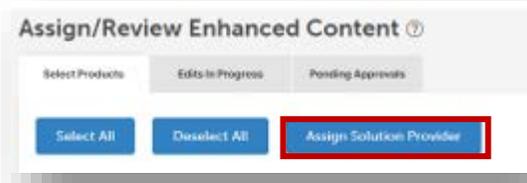
After selecting a Solution Provider, the Brand Owner will select the product record(s) and assign them to a Solution Provider to enhance following these steps.

Step	Action																																																						
1.	<p>The Brand Owner navigates to Product > Manage to display the data tables. Selects the PreMarket or In Use tab. Clicks the Assign/Review Enhanced Content link to display a new set of tables that only the Brand Owner can access.</p> 																																																						
2.	<p>The Select Products table displays all PreMarket and In Use products available for assignment. The Enhanced column within the table provides a visual indicator for records that have already been modified.</p>  <table border="1" data-bbox="313 1413 1308 1671"> <thead> <tr> <th>Status</th> <th>Enhanced</th> <th>Brand</th> <th>Description</th> <th>GTIN</th> <th>SKU</th> <th>Packaging Level</th> <th>Prefix</th> <th>Modified Date</th> </tr> </thead> <tbody> <tr> <td>PreMarket</td> <td></td> <td>SC Brand</td> <td>SC.Premarket.parent3</td> <td>00814141009507</td> <td></td> <td>Case</td> <td>081414100</td> <td>1/4/2019</td> </tr> <tr> <td>In Use</td> <td></td> <td>SC Brand</td> <td>SC.Premarket.parent5</td> <td>10814141009474</td> <td></td> <td>Case</td> <td>081414100</td> <td>1/4/2019</td> </tr> <tr> <td>PreMarket</td> <td></td> <td>test</td> <td>jr.prod.case.2</td> <td>20814141009426</td> <td></td> <td>Case</td> <td>081414100</td> <td>1/3/2019</td> </tr> <tr> <td>PreMarket</td> <td></td> <td>SC test case1</td> <td>SC.test.case1</td> <td>10814141009429</td> <td></td> <td>Case</td> <td>081414100</td> <td>1/3/2019</td> </tr> <tr> <td>In Use</td> <td>✔</td> <td>testing</td> <td>BimaleshDesc</td> <td>00814141009422</td> <td></td> <td>Each</td> <td>081414100</td> <td>1/3/2019</td> </tr> </tbody> </table> <p>Visual indicators are intended to help the Brand Owner easily identify which product records have been enhanced under the CCP Program from records that have not.</p>	Status	Enhanced	Brand	Description	GTIN	SKU	Packaging Level	Prefix	Modified Date	PreMarket		SC Brand	SC.Premarket.parent3	00814141009507		Case	081414100	1/4/2019	In Use		SC Brand	SC.Premarket.parent5	10814141009474		Case	081414100	1/4/2019	PreMarket		test	jr.prod.case.2	20814141009426		Case	081414100	1/3/2019	PreMarket		SC test case1	SC.test.case1	10814141009429		Case	081414100	1/3/2019	In Use	✔	testing	BimaleshDesc	00814141009422		Each	081414100	1/3/2019
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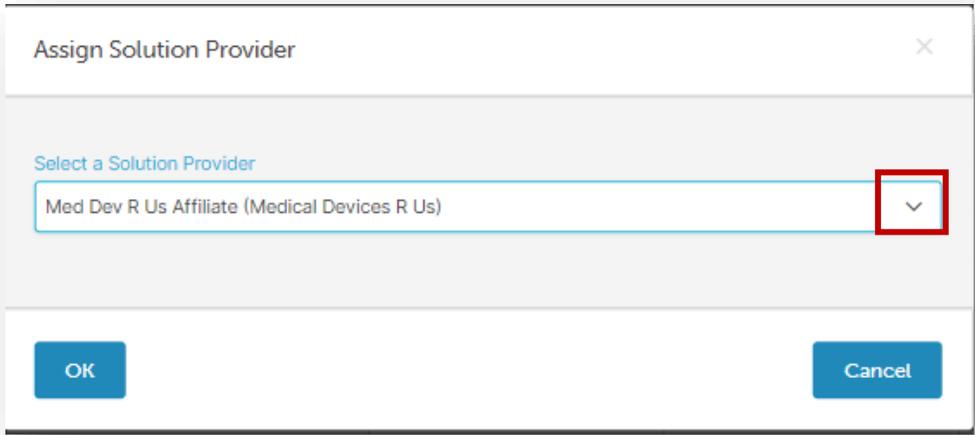
The icons displayed under the Enhanced column indicate a CCP supplied content and/or images were reviewed and approved by the Brand Owner:

- content approved and enhanced
- image approved and enhanced
- content and image approved and enhanced

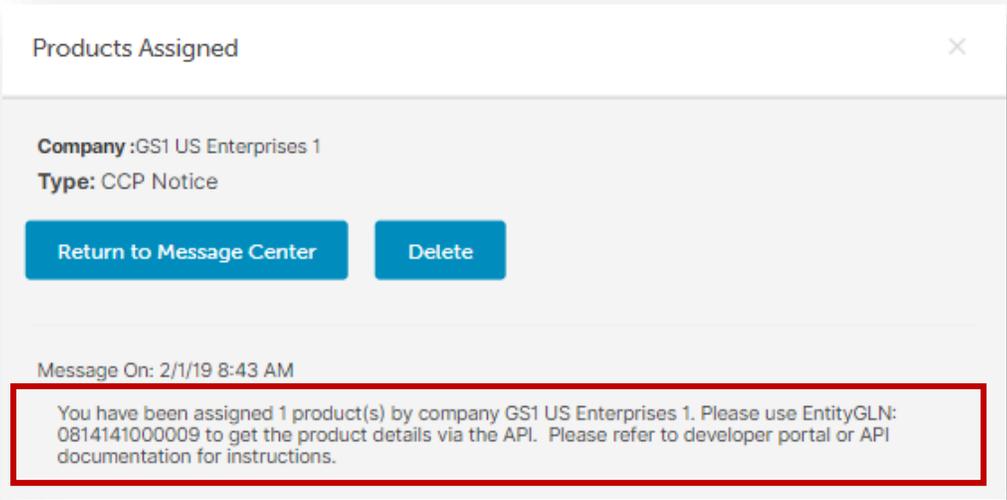
4. The Brand Owner selects one or more product records(s) and clicks the **Assign Solution Provider** button. Note: User can select multiple product records using shift control or clicking on the Select All button.



5. The **Assign Solution Provider** dialog box opens for the Brand Owner to select your company from the dropdown menu. In this example, we selected the test company, Medical Devices R Us. Click **OK** to confirm your selection.



NOTE: Only Solution Provider(s) that are preselected in the Administration screen will appear in the drop down. If the Brand Owner does not see

	<p>your company listed, the Brand Owner needs to contact their Administrator to check Solution Provider Settings.</p> <p>To add your company as a preferred Solution Provider, the Brand Owner should review the steps in their guide on “Selecting a GS1 US Solution Provider in the Certified Content Program”.</p>
6.	<p>GS1 US Data Hub initiates and sends a Products Assigned notification and email to you providing information that products have been assigned along with critical information that will enable you to access the product detail records using a Web Services (API) subscription.</p> <p>Below is a sample of the CCP Notice Data Hub sends to you. The EntityGLN is a critical piece of information you will need for the API to get and post assigned records.</p> 

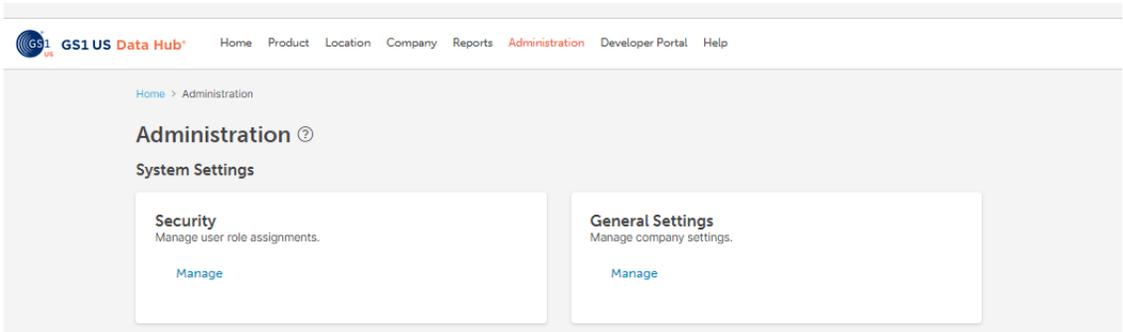
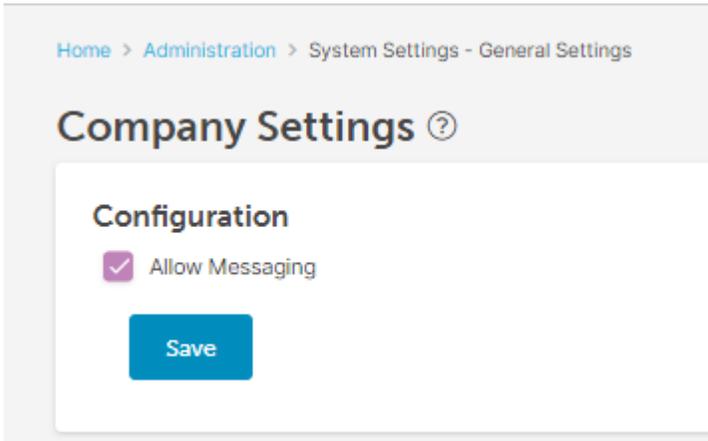
Brand Owners will select, assign/unassign records, review/approve content, review/reject content and images.

Screen views of all of the CCP Notices that Data Hub initiates and sends to a Solution Provider throughout the selection, assignment, review and approval process are provided in the Appendix.

Guidance for the Solution Partner in the Certified Content Provider Program

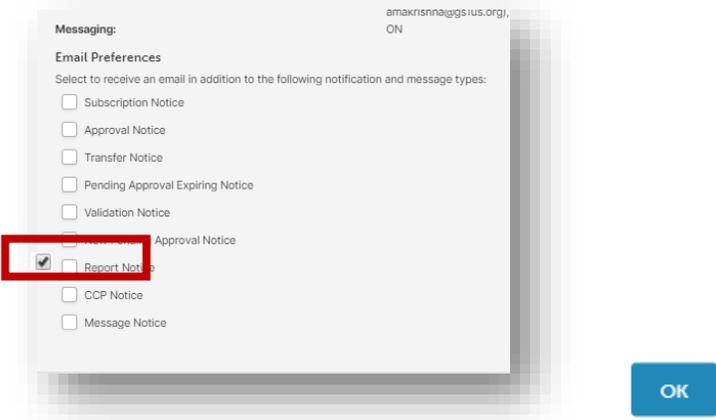
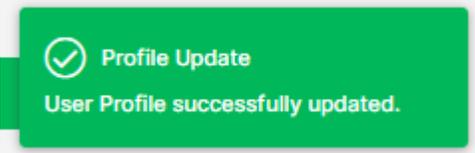
Getting Started: Setting Up Preferences to receive Messaging, Notifications and Email (Administrator Role)

To get started, your Data Hub Administrator needs to follow these initial set up steps to turn on messaging enabling individual users to set up email and CCP Notice preferences in their profile.

Step	Action
1.	<p>On the home page of GS1 US Data Hub, click on Administration and navigate to General Settings to manage your company settings. Click Manage.</p>  <p>The screenshot shows the GS1 US Data Hub Administration interface. At the top, there is a navigation menu with 'Administration' highlighted. Below the menu, the page title is 'Administration' with a help icon. Underneath, there is a 'System Settings' section containing two cards: 'Security' (Manage user role assignments) and 'General Settings' (Manage company settings). Both cards have a 'Manage' button.</p>
2.	<p>Click on the box next to Allow Messaging. Click Save</p>  <p>The screenshot shows the 'Company Settings' configuration page. The breadcrumb trail is 'Home > Administration > System Settings - General Settings'. The main heading is 'Company Settings' with a help icon. Under the 'Configuration' section, there is a checkbox labeled 'Allow Messaging' which is checked. Below the checkbox is a blue 'Save' button.</p>

Setting Email Preferences in User Profile (User Role)

The User Profile defines how a user wishes to receive emails and notifications when using GS1 US Data Hub. Individual users will need to set their own email preferences.

Step	Action
1.	<p>On the home page of GS1 US Data Hub, your user profile is located by clicking on the down arrow next to the user name (in most cases, this is your name) located at the top right side of the screen.</p> <p>Click the down arrow  next to the username to reveal a submenu. Click User Profile.</p> 
2.	<p>The User Profile screen will load. Use the scroll bar on the right side of the window to scroll down to view Email Preferences.</p> <p>Check the CCP Notice box to receive notifications and click the OK button to save.</p> 
3.	<p>A green confirmation dialog box, Profile Update, dialog box appears in the top right corner to confirm your selection.</p> 

Using the Developer Portal

Refer to the **GS1 US Data Hub Developer API Mini Guide** located in the Help Center for instructions on using the Developer Portal. Below are extracts from pages 3 and 4 of the guide.

GS1 US Data Hub Developer Portal Home Page Overview

GS1 US Data Hub Developer Portal operates under the Azure API Management capabilities. The Developer Portal provides you with a way to test your APIs, check usage, and manage your subscriptions.

The screenshot shows the portal interface with the following elements:

- 1**: Navigation menu with links for Home, APIs, My Subscriptions, and Usage Analytics.
- 2**: "Use Data Hub API to manage your applications" section containing a list of links: APIs, My Subscriptions, Usage Analytics, and Troubleshooting.
- 3**: User profile dropdown menu showing "GS1 US Enterprise" and the account number "10528292".
- 4**: "Have a Question?" section with contact information for GS1 US API Administration and Technical Questions.

1 Use the menu to navigate through the API Portal.

2 Click the blue underscore to hyperlink to the pages in the API Portal.

3 Click the down arrow on your company's account number for a profile of the subscription details and their status.

4 Contact GS1 US if you need support:

For API Administration: direct your questions to datahub@gs1us.org

For API Technical Questions: direct your questions to the datahubapi@gs1us.org mailbox

The API under the Certified Content Program is unique and referred to as **CCP-API**. Only Solution Providers in the program have access to this API. The Profile screen

(access Profile by clicking the down arrow at the account name in upper right portion of the screen) provides specific information, such as the APIKey, you will use in your calls.

Your Product and Company view/use subscriptions also allow you to use the Company and Product APIs to perform searches by GTIN, GLN or Company name. Results provide prefix certificate ownership information.

Profile

The Profile screen provides information specific to your account and subscription details by GS1 US Data Hub subscription (Product, Company, Location, My Location) and status (Active, Inactive). This page will allow you to customize the name of your API subscription, as well as display or regenerate primary and secondary keys.

1 Profile Sign Out

2 Profile

Email: cccengineering@gs1.us.org/black
 Organization name: GS1 US Enterprises 1

3 My Subscriptions

Subscription details			Product	Status
Subscription name	company-subscription	Rename	Company	Active
Primary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Secondary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Subscription name	location-subscription	Rename	Location	Active
Started on	06/15/2018	Show Regenerate		
Primary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Secondary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Subscription name	mylocation-subscription	Rename	MyLocation	Active
Primary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Secondary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Subscription name	product-subscription	Rename	Product	Active
Primary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		
Secondary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Show Regenerate		

4 Analytics reports

1 Username | GS1 US Account Number: the organization name and account number of the subscription holder. Click on the down arrow to reveal the Profile screen.

2 Email and Organization Name: email address for the member who is currently signed in account (organization) name

3 My Subscriptions: this section provides a summary of your subscriptions, allows for customization (Rename) of your subscription, enables you to display (show) or regenerate your keys and shows the status of each subscription.

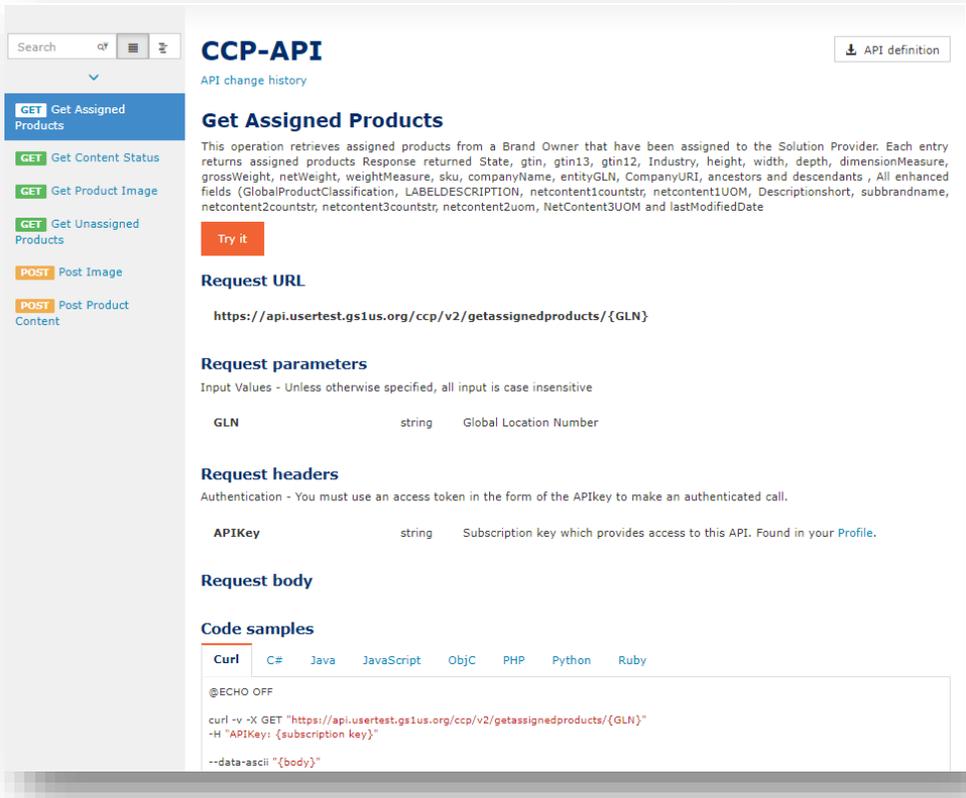
4 Analytics Reports: Click here to view the usage analytics of your API calls

4

Retrieving Assigned Product Records from a Brand Owner

To determine what products have been assigned to you, use this method to retrieve assigned product record details from the Brand Owner's Data Hub product list.

The request URL in step 1 is for USER TESTING. Remove "usertest" from the url for production.

Step	Action
1.	<p>Refer to the CCP-API v2 to retrieve assigned records, using the Get Assigned Products method. Try It allows you to try the request right from the UI.</p>  <p>The screenshot shows the 'Get Assigned Products' endpoint in the CCP-API v2 interface. The URL is <code>https://api.usertest.gs1us.org/ccp/v2/getassignedproducts/{GLN}</code>. The request parameters section indicates that <code>GLN</code> is a string representing the Global Location Number. The request headers section notes that an <code>APIKey</code> is required for authentication. A code sample for curl is provided at the bottom.</p>
2.	<p>Use Request URL/parameter/header http://api.gs1us.org/product/v2/getassignedproducts/{GLN}</p> <p>{GLN} is the request parameter. This is the entityGLN value provided in the CCP Selection notification.</p> <p>APIKey is the primary or secondary subscription key provided in your Profile. The Try It function prepopulates this value.</p>

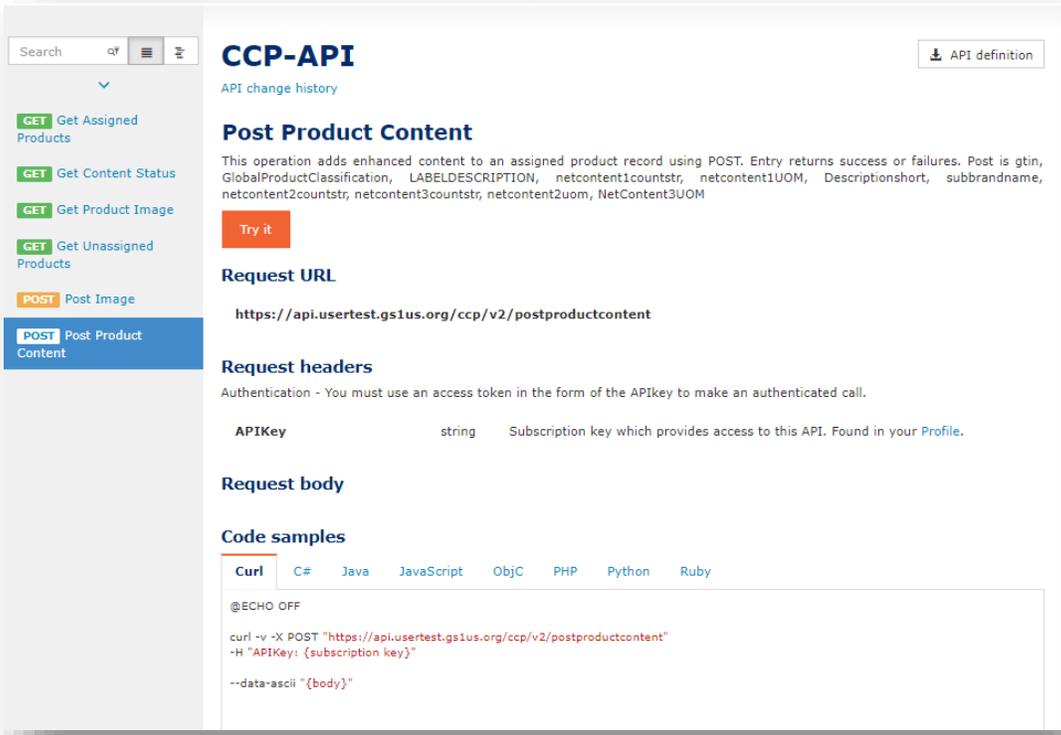
3.	If using Try It, click SEND to submit the API request.
4.	<p>If the call is successful, the response will return the product details as a reference, shown in the example below:</p> <p>Response:</p> <pre> 200 OK 808.75 ms DETAILS { "success": true, "productInformation": { "gtin": "XXXXXXXnnnnnn", { "products": [{ "brandName": "Brian's Best", "description": "Reserved Item", "state": "In Use", "status": "Assigned", "actionDate": "2018-01-22T09:13:50.5", "gtin": "XXXXXXXX000733", "gtin13": "", "gtin12": "XXXXXXXX00733", "industry": "General", "height": null, "width": null, "depth": null, "dimensionMeasure": null, "grossWeight": null, "netWeight": null, "weightMeasure": null, "sku": null, "companyName": "GS1 US Enterprises 1", "entityGLN": "XXXXXXXX000009", "CompanyURI": "/company/v2/company/XXXXX500105283920", "ancestors": [], "descendants": [], </pre>

5.	One or more product detail records may be retrieved in a single query against the entityGLN, if the Brand Owner assigns them. These results may include both PreMarket and InUse records.
6.	Submit changes one record at a time. See Adding Enhanced Content to an Assigned Product Record via the API

Adding Enhanced Content to an Assigned Product Record

To add enhanced content to product records assigned to you, use the POST method using the command “postproductcontent” in the request URL.

The example Request URL in step 1 below is for USER TESTING. Refer to step 2 for the Request URL.

Step	Action
1.	<p>To add content to assigned records, use the Post Product Content method using the command “postproductcontent” in the request URL.</p> 
2.	<p>Use Request URL http://api.gs1us.org/ccp/v2/postproductcontent/</p>
3.	<p>Add a Request Header Enter in the Header Name: APIKey In the Header Value field enter the appropriate API key from your Profile</p>
4.	<p>Add Body Content Type: application/JSON The Body Content Type updates Data Hub enhanced content attributes.</p>

Use the following code to change the enhanced content. Recommendations: Copy and paste the syntax below, then change the individual field values. Save the syntax as a named template for repeated use.

Required fields for both PreMarket and InUse record states are:
GTIN, LabelDescription, NetContent1Count, NetContent1UnitofMeasure, GlobalProductClassification and ImageURL

5. Syntax for **PreMarket** Records

```
{
  "gtin": "00814141005059",
  "fields": [
    {
      "fieldName": "Description",
      "fieldValue": "SC Prod Test"
    },
    {
      "fieldName": "Height",
      "fieldValue": 1
    },
    {
      "fieldName": "Width",
      "fieldValue": 1
    },
    {
      "fieldName": "Depth",
      "fieldValue": 1
    },
    {
      "fieldName": "DimensionMeasure",
      "fieldValue": "inches"
    },
    {
      "fieldName": "GrossWeight",
      "fieldValue": 1
    },
    {
      "fieldName": "NetWeight",
      "fieldValue": 1
    },
    {
      "fieldName": "WeightMeasure",
      "fieldValue": "ounces"
    },
  ]
}
```

```
"fieldName": "SKU",
"fieldValue": null
},
{
"fieldName": "Country",
"fieldValue": "USA"
},
{
"fieldName": "Comments",
"fieldValue": "Comment from API"
},
{
"fieldName": "GlobalProductClassification",
"fieldValue": "01234561"
},
{
"fieldName": "LabelDescription",
"fieldValue": "Test labelDescription"
},
{
"fieldName": "Descriptionshort",
"fieldValue": "test update from API"
},
{
"fieldName": "SubBrandName",
"fieldValue": "test update from API"
},
{
"fieldName": "NetContent1CountStr",
"fieldValue": "1.000"
},
{
"fieldName": "NetContent1UOM",
"fieldValue": "lb"
},
{
"fieldName": "NetContent2CountStr",
"fieldValue": "1"
},
{
"fieldName": "NetContent2UOM",
"fieldValue": "lb"
},
{
"fieldName": "NetContent3CountStr",
"fieldValue": "1"
},
},
```

```

{
  "fieldName": "NetContent3UOM",
  "fieldValue": "oz"
},
{
  "fieldName": "ImageUrl",
  "fieldValue": "www.image.com"
}
]
}

```

6. Syntax for **In Use** Records

```

{
  "gtin": "00814141000931",
  "fields": [
    {
      "fieldName": "Description",
      "fieldValue": "Prod 831-00 Case1"
    },
    {
      "fieldName": "Height",
      "fieldValue": 6
    },
    {
      "fieldName": "Width",
      "fieldValue": 2.1
    },
    {
      "fieldName": "Depth",
      "fieldValue": 2.1
    },
    {
      "fieldName": "DimensionMeasure",
      "fieldValue": "feet"
    },
    {
      "fieldName": "GrossWeight",
      "fieldValue": 1
    },
    {
      "fieldName": "NetWeight",
      "fieldValue": 1
    },
    {
      "fieldName": "WeightMeasure",
      "fieldValue": "ounces"
    }
  ]
}

```

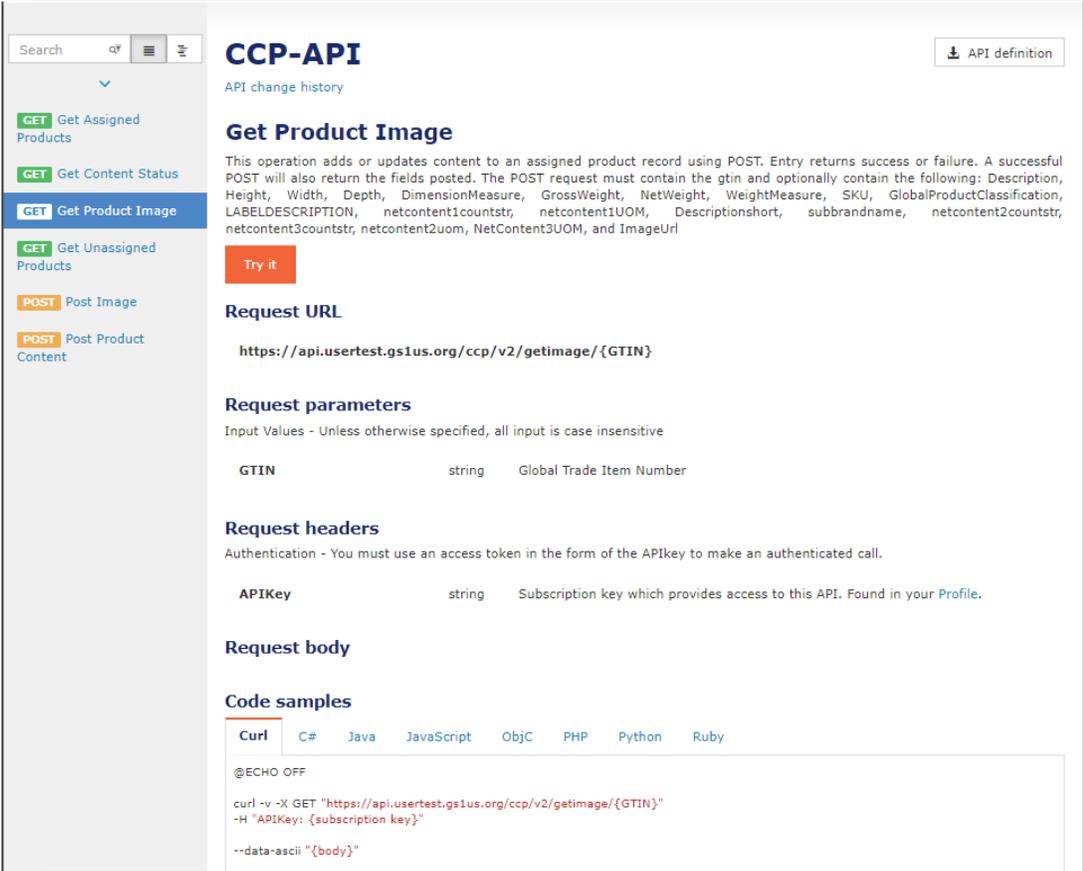
```
},
{
  "fieldName": "GlobalProductClassification",
  "fieldValue": "01234561"
},
{
  "fieldName": "LabelDescription",
  "fieldValue": "Test label Description"
},
{
  "fieldName": "Descriptionshort",
  "fieldValue": "test update from API"
},
{
  "fieldName": "SubBrandName",
  "fieldValue": "test update from API"
},
{
  "fieldName": "TargetMarket",
  "fieldValue": "test update from API"
},
{
  "fieldName": "NetContent1CountStr",
  "fieldValue": "1.000"
},
{
  "fieldName": "NetContent1UOM",
  "fieldValue": "lbs"
},
{
  "fieldName": "NetContent2CountStr",
  "fieldValue": "123333"
},
{
  "fieldName": "NetContent2UOM",
  "fieldValue": "lbs"
},
{
  "fieldName": "NetContent3CountStr",
  "fieldValue": "123333"
},
{
  "fieldName": "NetContent3UOM",
  "fieldValue": "oz"
},
{
  "fieldName": "ImageUrl",
```

	<pre>"fieldValue": "www.image.com" }] }</pre>
7.	<p>Receive confirmation that the request was successful.</p> <p>Response: 200 OK 808.75 ms DETAILS { "Success"</p>
8.	<p>Scroll to Body for data</p>

Retrieving an Existing Image from a Product Record

GS1 US is decommissioning the feature to store image files in GS1 US Data Hub. A CCP is requested to use the attribute: imageURL to point a user to an image library in an offsite location.

In rare cases, when it is necessary to retrieve an existing image file for the assigned product's record, follow the steps below. NOTE: This method works best using an external tool, such as, POSTMAN.

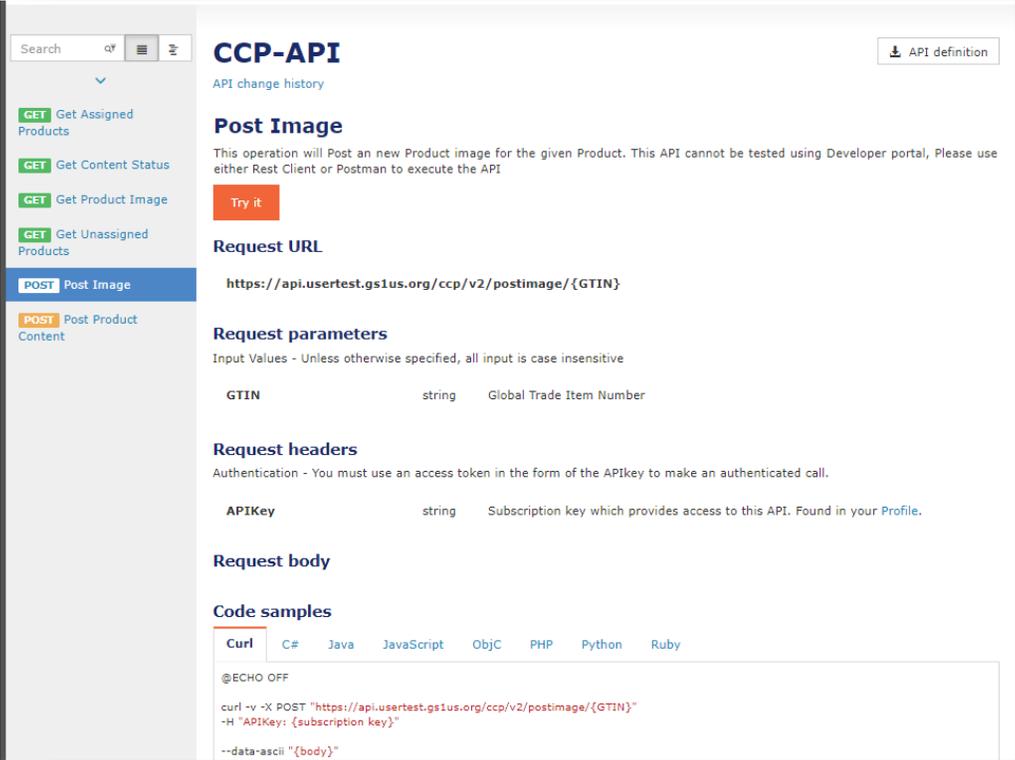
Step	Action																					
1.	<p data-bbox="289 604 808 636">Use Method: Get Product Image</p> <p data-bbox="289 674 1404 772">This method retrieves an existing image file from the Data Hub record. This method takes the GTIN of the product record assigned to you by the Brand Owner as its parameter.</p> <p data-bbox="289 814 1463 879">The example Request URL in step 1 below is for USER TESTING. Refer to step 2 for the Request URL.</p> <div data-bbox="318 947 1401 1818"><p data-bbox="334 989 516 1010">Search <input type="text"/></p><h3 data-bbox="540 984 678 1014">CCP-API</h3><p data-bbox="540 1024 662 1043">API change history</p><h4 data-bbox="540 1066 771 1094">Get Product Image</h4><p data-bbox="540 1100 1382 1184">This operation adds or updates content to an assigned product record using POST. Entry returns success or failure. A successful POST will also return the fields posted. The POST request must contain the gtin and optionally contain the following: Description, Height, Width, Depth, DimensionMeasure, GrossWeight, NetWeight, WeightMeasure, SKU, GlobalProductClassification, LABELDESCRIPTION, netcontent1countstr, netcontent1UOM, Descriptionshort, subbrandname, netcontent2countstr, netcontent3countstr, netcontent2uom, NetContent3UOM, and ImageUrl</p><p data-bbox="558 1203 610 1222">Try it</p><h4 data-bbox="540 1249 659 1268">Request URL</h4><p data-bbox="553 1289 971 1308"><code>https://api.usertest.gs1us.org/ccp/v2/getimage/{GTIN}</code></p><h4 data-bbox="540 1341 729 1360">Request parameters</h4><p data-bbox="540 1367 980 1386">Input Values - Unless otherwise specified, all input is case insensitive</p><table border="1" data-bbox="540 1404 1003 1430"><thead><tr><th>Parameter</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>GTIN</td><td>string</td><td>Global Trade Item Number</td></tr></tbody></table><h4 data-bbox="540 1465 696 1484">Request headers</h4><p data-bbox="540 1491 1198 1509">Authentication - You must use an access token in the form of the APIKey to make an authenticated call.</p><table border="1" data-bbox="540 1528 1300 1554"><thead><tr><th>Header</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>APIKey</td><td>string</td><td>Subscription key which provides access to this API. Found in your Profile.</td></tr></tbody></table><h4 data-bbox="540 1585 669 1604">Request body</h4><h4 data-bbox="540 1638 669 1656">Code samples</h4><table border="1" data-bbox="540 1675 1040 1694"><thead><tr><th>Language</th></tr></thead><tbody><tr><td>Curl</td></tr><tr><td>C#</td></tr><tr><td>Java</td></tr><tr><td>JavaScript</td></tr><tr><td>ObjC</td></tr><tr><td>PHP</td></tr><tr><td>Python</td></tr><tr><td>Ruby</td></tr></tbody></table><pre data-bbox="540 1709 1382 1818">@ECHO OFF curl -v -X GET "https://api.usertest.gs1us.org/ccp/v2/getimage/{GTIN}" -H "APIKey: {subscription key}" --data-ascii "{body}"</pre></div>	Parameter	Type	Description	GTIN	string	Global Trade Item Number	Header	Type	Description	APIKey	string	Subscription key which provides access to this API. Found in your Profile.	Language	Curl	C#	Java	JavaScript	ObjC	PHP	Python	Ruby
Parameter	Type	Description																				
GTIN	string	Global Trade Item Number																				
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APIKey	string	Subscription key which provides access to this API. Found in your Profile.																				
Language																						
Curl																						
C#																						
Java																						
JavaScript																						
ObjC																						
PHP																						
Python																						
Ruby																						

2.	Use Request URL: http://api.gs1us.org/ccp/v2/getimage/{GTIN} Change the {GTIN} for the product record from which you want to retrieve image.
3.	Add a Header field. Enter in the Header Name: APIKey In the Header Value field enter the appropriate API key.
4.	Browse for and select the picture file to upload. Note: file size not to exceed 900k.
5.	Update the Field Name with File .
6.	Click SEND to submit the API request to Data Hub.
7.	Receive confirmation that the request was successful.
8.	Response: 200 OK 791.70 ms DETAILS "Success"
9.	If a record is pending content approval, Data Hub will return an error that the record could not be found. Wait to resubmit, or until the enhanced record content has been approved or reassigned.
10.	Scroll to the Body for data.

Posting an Image to the Product Record

GS1 US is decommissioning the feature to store image files in GS1 US Data Hub. A CCP is requested to use the attribute: imageURL point a user to an image library in an offsite location.

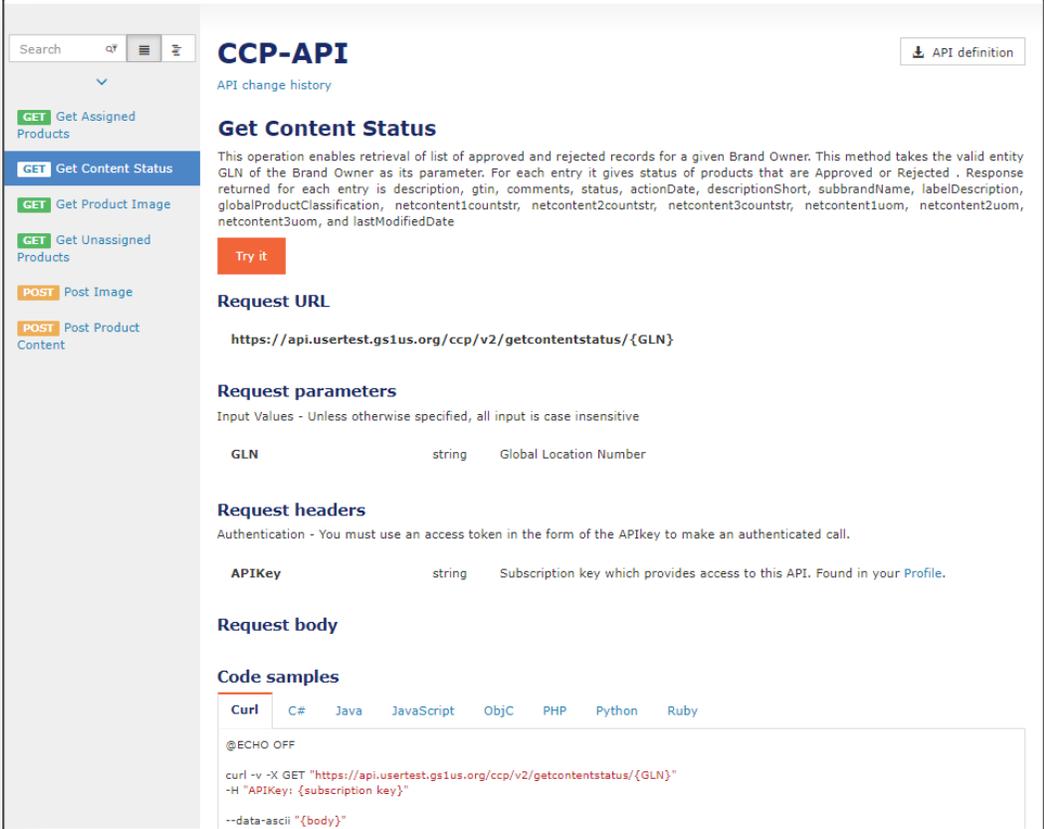
In rare cases, when it is necessary to replace existing image files via the API, follow these steps., NOTE: This method works best using an external tool, such as, POSTMAN.

Step	Action
1.	<p data-bbox="269 680 683 709">Use Method: POST Image</p> <p data-bbox="269 747 1380 814">This method adds an enhanced image to the Data Hub record. This method takes a valid GTIN as its parameter.</p> <p data-bbox="269 852 1414 919">The example Request URL in step 1 below is for USER TESTING. Refer to step 2 for the Request URL.</p> <div data-bbox="302 953 1317 1713"><p data-bbox="310 989 495 1014">Search</p><p data-bbox="513 989 643 1018">CCP-API</p><p data-bbox="513 1026 626 1045">API change history</p><p data-bbox="1182 993 1292 1014">API definition</p><p data-bbox="318 1058 472 1089">GET Get Assigned Products</p><p data-bbox="318 1104 472 1125">GET Get Content Status</p><p data-bbox="318 1140 472 1161">GET Get Product Image</p><p data-bbox="318 1176 472 1207">GET Get Unassigned Products</p><p data-bbox="318 1222 472 1253">POST Post Image</p><p data-bbox="318 1268 472 1299">POST Post Product Content</p><p data-bbox="513 1066 643 1092">Post Image</p><p data-bbox="513 1098 1299 1129">This operation will Post a new Product image for the given Product. This API cannot be tested using Developer portal, Please use either Rest Client or Postman to execute the API</p><p data-bbox="529 1142 578 1163">Try it</p><p data-bbox="513 1188 623 1209">Request URL</p><p data-bbox="529 1226 919 1247">https://api.usertest.gs1us.org/ccp/v2/postimage/{GTIN}</p><p data-bbox="513 1274 688 1295">Request parameters</p><p data-bbox="513 1302 924 1320">Input Values - Unless otherwise specified, all input is case insensitive</p><p data-bbox="529 1337 946 1356">GTIN string Global Trade Item Number</p><p data-bbox="513 1390 659 1411">Request headers</p><p data-bbox="513 1417 1130 1436">Authentication - You must use an access token in the form of the APIkey to make an authenticated call.</p><p data-bbox="529 1453 1222 1472">APIKey string Subscription key which provides access to this API. Found in your Profile.</p><p data-bbox="513 1503 633 1524">Request body</p><p data-bbox="513 1554 633 1575">Code samples</p><p data-bbox="529 1585 980 1604">Curl C# Java JavaScript ObjC PHP Python Ruby</p><p data-bbox="529 1621 591 1640">@ECHO OFF</p><pre data-bbox="529 1650 938 1713">curl -v -X POST "https://api.usertest.gs1us.org/ccp/v2/postimage/{GTIN}" -H "APIKey: {subscription key}" --data-ascii "{body}"</pre></div>

2.	Use Request URL: http://api.gs1us.org/ccp/v2/postimage/{GTIN} Change {GTIN} to the GTIN corresponding to the product image you need to replace.
3.	Add Header field Use Header Name: APIKey In the Header Value type your API key
4.	The Body will display a Choose File field. Click to search for your file
5.	Browse for and select the picture file to upload. Note: file size not to exceed 1MB
6.	Update the Field Name with File
7.	Click Send to submit the API request to Data Hub
8.	Receive confirmation that the request was successful
9.	Response: 200 OK 791.70 ms DETAILS "Success"
10.	If a record is pending content approval, Data Hub will return an error that the record could not be found. Wait to resubmit, or until the enhanced record content has been approved or reassigned.
11.	Scroll to the Body for data
12.	Only one image file may be posted to a product record. Only one image file can be conveyed in a single API submission.

Determining the Status of Approved and Rejected Records

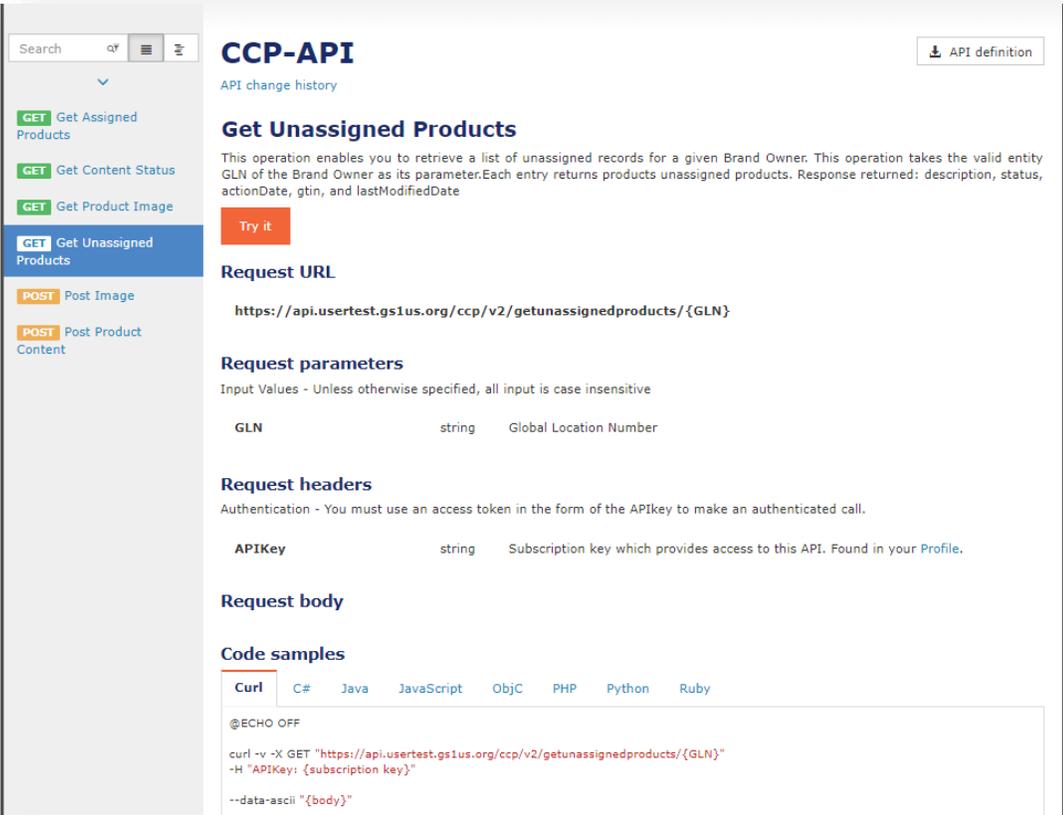
This step provides a way for you to determine the status of records assigned to you by the Brand Owner.

Step	Action
1.	<p>Use Method: Get Content Status</p> <p>This method enables you to retrieve a list of approved and rejected records for a given Brand Owner. This method takes the valid entityGLN of the Brand Owner as its parameter.</p> 
2.	<p>Use Request URL: http://api.gs1us.org/ccp/v2/getcontentstatus/{GLN}</p> <p>Change {GLN} to the entityGLN value provided in the CCP Selection notification</p>

3.	<p>Add a Header field Use the following under Header Name: APIkey In the Header Value type your API key</p>
4.	<p>Click SEND to submit the API request to Data Hub.</p>
5.	<p>Receive confirmation that the request was successful and scroll through the file to review results.</p> <p>Response: 200 OK 791.70 ms DETAILS "Success"</p>
6.	<p>If a record is pending approval, Data Hub will return an error that the record can not be found. Wait to resubmit or until that record has been approved.</p>
7.	<p>Scroll to the Body for data</p>

Retrieving a List of Records a Brand Owner Unassigned

This step provides a way for you to determine the status of records that were unassigned by the Brand Owner.

Step	Action														
1.	<p>Use Method: Get Unassigned Products</p> <p>This method enables you to retrieve a list of unassigned records for a given Brand Owner. This method takes the valid entity GLN of the Brand Owner as its parameter.</p> <p>The example Request URL in step 1 below is for USER TESTING. Refer to step 2 for the Request URL.</p>  <p>Request URL</p> <pre>https://api.usertest.gs1us.org/ccp/v2/getunassignedproducts/{GLN}</pre> <p>Request parameters</p> <p>Input Values - Unless otherwise specified, all input is case insensitive</p> <table border="1"><thead><tr><th>Parameter</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>GLN</td><td>string</td><td>Global Location Number</td></tr></tbody></table> <p>Request headers</p> <p>Authentication - You must use an access token in the form of the APIkey to make an authenticated call.</p> <table border="1"><thead><tr><th>Header</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>APIKey</td><td>string</td><td>Subscription key which provides access to this API. Found in your Profile.</td></tr></tbody></table> <p>Request body</p> <p>Code samples</p> <table border="1"><thead><tr><th>Language</th></tr></thead><tbody><tr><td>Curl</td></tr></tbody></table> <pre>@ECHO OFF curl -v -X GET "https://api.usertest.gs1us.org/ccp/v2/getunassignedproducts/{GLN}" -H "APIKey: {subscription key}" --data-ascii "{body}"</pre>	Parameter	Type	Description	GLN	string	Global Location Number	Header	Type	Description	APIKey	string	Subscription key which provides access to this API. Found in your Profile.	Language	Curl
Parameter	Type	Description													
GLN	string	Global Location Number													
Header	Type	Description													
APIKey	string	Subscription key which provides access to this API. Found in your Profile.													
Language															
Curl															
2.	<p>Use Request URL:</p> <pre>http://api.gs1us.org/ccp/v2/getunassignedproducts/{GLN}</pre>														

	Change the {GLN} to the entityGLN value provided in the CCP Selection notification
3.	Add Header field Use Header Name: ApiKey In the Header Value type your API Key
5.	Click SEND to submit the API request to Data Hub.
6.	Receive confirmation that the request was successful and scroll through the file to review results. Response: 200 OK 791.70 ms DETAILS "Success"
7.	If a record is pending approval, Data Hub will return an error that the record could not be found. Wait to resubmit or until that record has been approved.
8.	Scroll to the Body for data

APPENDIX

Notification Examples

CCP Selection ✕

Company :Microsurgical Technology Inc
Type: CCP Notice

[Return to Message Center](#) [Delete](#)

Message On: 1/7/19 9:14 AM

Congratulations Med Dev R Us Affiliate, you have been selected by Microsurgical Technology Inc to be it's Certified Content Provider. Further details for your API will be sent when the brand owner assigns products to you.
Brand owner contact: Email not provided

Products Assigned ✕

Company :GS1 US Enterprises 1
Type: CCP Notice

[Return to Message Center](#) [Delete](#)

Message On: 2/1/19 8:43 AM

You have been assigned 1 product(s) by company GS1 US Enterprises 1. Please use EntityGLN: 0814141000009 to get the product details via the API. Please refer to developer portal or API documentation for instructions.

Content Approved ✕

Company :GS1 US Enterprises 1
Type: CCP Notice

[Return to Message Center](#) [Delete](#)

Message On: 1/28/19 2:09 PM

Company GS1 US Enterprises 1 has approved 2 product(s). Please use the API to get the list.

Content Rejected ✕

Company :GS1 US Enterprises 1
Type: CCP Notice

[Return to Message Center](#) [Delete](#)

Message On: 1/2/19 12:02 PM

Company GS1 US Enterprises 1 has rejected content changes for this product 00814141003956.
Comments: rejected1

Products Unassigned ×

Company :GS1 US Enterprises 1
Type: CCP Notice

[Return to Message Center](#) [Delete](#)

Message On: 12/20/18 9:05 AM

Company GS1 US Enterprises 1 has removed 1 product(s) from your work assignment. Please use the API to get an unassigned List, and contact the Brand Owner for more information.

API Commands for the CCP

Request URL: <https://api.gs1us.org/ccp/v2/...>

Desired Action	String to Append to Request URL
Retrieve list of products assigned by the Brand Owner referencing its entity GLN	getassignedproducts/{GLN}
Retrieve list of product records unassigned by the Brand Owner by its entity GLN	getunassignedproducts/{GLN}
Post the enhanced attributes to the GTIN records assigned by the Brand Owner	postproductcontent [see note below]
Retrieve the list of approved and rejected records and reasons for rejection in body of response	getcontentstatus/{GLN}
Retrieve the image file of an assigned GTIN	getimage/{GTIN}
Post the new image file of an assigned GTIN	postimage/{GTIN}

Note: These fields are always required for posting content to both record states:

- GTIN
- LabelDescription
- NetContent1Count
- NetContent1UnitofMeasure
- GlobalProductClassification
- ImageURL

Data Dictionary for the Enhanced Content Attributes

FieldName (*required)	FieldValue	Construct
GTIN (*)	Numeric	Enter reference as assigned
GlobalProductClassification (*)	Character string	8 Digit Numeric; not all zeroes
LABELDESCRIPTION (*)	Text	500 Characters
Netcontent1count (*)	Numeric	80 "characters" long, can be an integer or up to 4 decimal places
netcontent1UnitOfMeasure (*)	Text	90 Characters
imageURL	Character string	2080 Character limit

Notes:

1. Net Content must include both *count* and *UnitOfMeasure* field values

Modifiable Product Attributes

	PREMARKET			IN USE		
	Brand Owner	CCP		Brand Owner	CCP	
Always post required fields						
Always post all fields when correcting a rejected field						
<i>GS1CompanyPrefix</i>	R	R				
<i>GTIN</i>	R	R	R			R
<i>PackagingLevel</i>	R	R				
<i>Product Description</i>	R	R	O	O	O	O
<i>SKU</i>	O	O	O	*	*	*
<i>Brand Name</i>	R	R				
<i>Status</i>	R	R		O	O	
<i>IsVariable</i>						
<i>IsPurchasable</i>	R	R				
<i>Certified</i>	System generated			System generated		
<i>Height</i>	O	O	O	O	O	O
<i>Width</i>	O	O	O	O	O	O
<i>Depth</i>	O	O	O	O	O	O
<i>DimensionMeasure</i>	O	O	O			see note 2
<i>GrossWeight</i>	O	O	O	O	O	O
<i>NetWeight</i>	O	O	O	O	O	O
<i>WeightMeasure</i>	O	O	O			see note 2
<i>Comments</i>	O	O	O	*	O	O
<i>CountryOfOrigin</i>	Note: Scheduled to be removed in 2019					
<i>ChildGTINs (UPPER LEVEL)¹</i>	O ¹	O ¹				
<i>Quantity¹</i>	O ¹	O ¹				
<i>SubBrand Name</i>	O	O	O			O
<i>Target Market</i>	O	O	O			O
<i>ProductDescriptionShort</i>	O	O	O			O
<i>LabelDescription</i>	O	O	R	O	O	R
<i>NetContent1Count</i>	O	O	R			R ²
<i>NetContent1UnitOfMeasure</i>	O	O	R			R ²
<i>NetContent2Count</i>	O	O	O			O ²
<i>NetContent2UnitOfMeasure</i>	O	O	O			O ²
<i>NetContent3Count</i>	O	O	O			O ²
<i>NetContent3UnitOfMeasure</i>	O	O	O			O ²
<i>GlobalProductClassification</i>	O	O	R	O	O	R
<i>ImageURL</i>	O	O	R	O	O	R
<i>Last Modified Date</i>	System generated			System generated		

KEY

See Next page

KEY for Modifiable Product Attributes Table

Blank is not applicable or editable

R, R² = Required field

O, O² = Optional field

¹ Required field for upper level packaging

² Editable when null only

* = revisit post Rel. 4.0