



# **MDGuidelines® API: Token v2 Specification 3.0**

**Date: January 12, 2023**

# 1 Overview

## 1.1 Purpose and Intended Audience

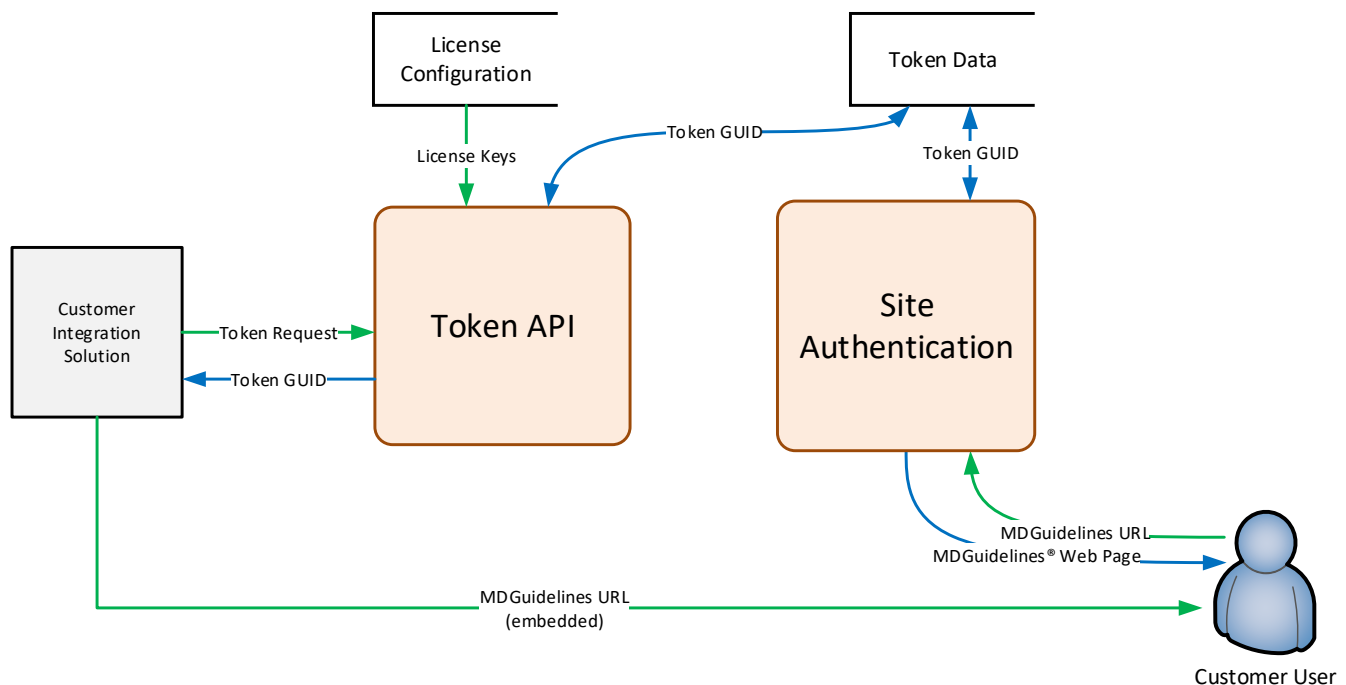
The purpose of this document is to provide detailed descriptions and specifications for the MDGuidelines® Token v2 API.

The Token API is intended to be used by MDGuidelines clients and partners who have integrated MDGuidelines into their own products and wish to provide direct links into the MDGuidelines website in order to enrich their integration.

The version number of this document refers to the Specification version. See Section 2.3 Version Information below for information related to the API version.

## 1.2 Process Description

The Token API uses an integration license key to validate integration access. Once validated, the API returns a user authentication token. Authentication tokens may be used to provide a client user direct, login-free access to the MDGuidelines website.



The process is described below:

Process Step	Description	Responsible Party
1. License configuration	<p>The Client's MDGuidelines license must be configured to establish an Integration License Key (RG-LICENSE-KEY).</p> <p>Additionally, a secondary User License Key is established so that integrated user records can be appropriately provisioned for the site's features.</p> <p>This is a one-time implementation configuration, per Client.</p>	MDGuidelines Account Management
2. Token service request	Using the Integration License Key and the User License Key, plus other user-identifying fields, submit a request to the Token API.	Client integrated software solution
3. Token response	<p>With valid and verified inputs, the system will create a user authentication token and send it back to the requestor.</p> <p>If the user email does not already exist, a user record will be created. This allows individual users to take advantage of user-specific features. It also allows MDGuidelines to provide usage metrics.</p> <p>The token is associated to the individual user record.</p> <p>The token may be reused until it expires (24 hours).</p> <p>If a new token is requested for a user that already has an unexpired token, the expiration date will be extended to reset the expiration date to give an additional 24 hours. The same token will be returned.</p>	MDGuidelines system

Process Step	Description	Responsible Party
4. Use token for site access	<p>Append the provided token GUID to any valid MDGuidelines website URL to automatically gain authenticated access to the site based on the features allowed by the User License.</p> <p>The token parameter may be appended to the home page for general access to the site, as allowed by the User License.</p> <p>Example: <a href="https://app.mdguidelines.com/content/carpal-tunnel-syndrome?token=CDEF7890-ABCD-1234-ABCD-1234567890AB">https://app.mdguidelines.com/content/carpal-tunnel-syndrome?token=CDEF7890-ABCD-1234-ABCD-1234567890AB</a></p> <p>Note: Valid content deep-link URLs may be obtained through the Durations or Topics APIs or other indexes provided by MDGuidelines.</p>	Client integrated software solution
5. Authenticate token GUID	The MDGuidelines site will validate that the token GUID is valid and current, and authenticate the user to the specified URL target.	MDGuidelines system

## 2 API Specification

This section documents the technical usage of the Token API. General information about any of the MDGuidelines APIs can be found at <https://api.mdguidelines.com/help>.

MDGuidelines APIs are RESTful.

This information will also be published at <https://api.mdguidelines.com/help/token-v2.html>.

### 2.1 End Points

The Token API end points:

Version	End Point
v1	<a href="https://api.mdguidelines.com/api/v1/token">https://api.mdguidelines.com/api/v1/token</a>
v2	<a href="https://api.mdguidelines.com/api/v2/token">https://api.mdguidelines.com/api/v2/token</a>

### 2.2 Authentication

The Organization's API license key must be provided via the request headers as "RG-LICENSE-KEY" (see sample code, below). This key will be provided by the Client's MDGuidelines Account Manager.

### 2.3 Version Information

The current stable version of this API is v2.

The currently supported version(s) of this API are:

Version	Support End Date
v1	N/A - Not announced.
v2	N/A - Not announced.

### 2.4 Input Parameters

Data Element	Data Type	Req?	Format	Data Element Description	Length	Default Value
UserLicenseKey	GUID	Yes	CDEF7890-ABCD-1234-ABCD-1234567890AB where 0-9, A-F symbolizes hexadecimal digits	Designates the license to which Client's users will be associated (provided by Client's Account Manager).  This is a different key from the API authentication key (RG-LICENSE-KEY). Previously, this parameter was called "LicenseKey".	36	N/A
Fname	String	Yes		First name of the user.	50	If this is not available from the Client's application, please provide a placeholder value to stand for anonymous users. (e.g., "User")  Note that the user Fname will be visible to the user in the website.
Lname	String	Yes		Last name of the user.	50	If this is not available from the Client's application, please provide a placeholder value to stand for anonymous users. (e.g., "Token")
Email	String	Yes	username@domain.com	Email of the user.	255	If this is not available from the Client's application, please provide a placeholder value to stand for anonymous users. (e.g., "username@domain.com").

## 2.5 Response

Data can be returned as JSON or XML.

If using XML, the XSD may be found here: <https://api.mdguidelines.com/xsd/TokenV2.xsd>

Data Element	Data Type	Req?	Format	Data Element Description	Length	Default Value
Value	GUID	No	CDEF7890-ABCD-1234-ABCD-1234567890AB where 0-9, A-F symbolizes hexadecimal digits	Integration License Key GUID provided by MDGuidelines with a current integration license.  If the request produces errors/exceptions, then no token will be returned.	36	n/a

## 2.6 Exception Conditions and Troubleshooting

The service may provide response codes, for success or errors. The common response codes implemented in the MDGuidelines API are documented at <https://api.mdguidelines.com/help>.

If the API or this service happened to be down, the response will be a 500 Server error.

Additionally, the response may include errors or exceptions specific to the required inputs. These validation messages are provided in a String format without additional error code. If you have questions or concerns about validation messages, reach out to your Account Manager.

If the Client's user attempts to use an MDGuidelines.com URL with an expired or invalid token parameter (or missing the Token parameter), the MDGuidelines.com website may present an error, such as "Access Denied", or the site may redirect to a user login page. To obtain assistance in resolving this scenario, end users of integrated applications should follow their own internal problem report processes. If the Client needs assistance resolving problems of this nature, they should contact their MDGuidelines Account Manager.

## 2.7 Testing

MDGuidelines supports two methods for integration testing:

1. Production Test Page
  - a. <https://api.mdguidelines.com/help/token-v2.html>
  - b. Requires production license key configuration (RG-LICENSE-KEY and License Key parameter)
2. API Testing tool, such as Postman
  - a. <https://www.getpostman.com/apps>

## 2.8 Sample Code

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### JQuery

```
<script src="https://code.jquery.com/jquery-2.1.4.min.js"></script>
<script>
    //Provide the first name, last name, and email address of the user.
    var fname = 'Bob';
    var lname = 'Smith';
    var email = 'bsmith@domain.com';

    //The target license is license that the new user will be added to.
    //It must have an Authentication Type of "Integration".
    //(MDGuidelines will set up this license and provide the key.)
    var userLicense = '00000000-1111-2222-3333-444444444444';

    //This is the license key that grants you access to the API.
    //It is passed in through the request headers.
    var apiLicense = 'AAAAA-AAAA-BBBB-CCCC-DDDD-EEEEEEEEEEEEEE';

    var uri =
        'https://api.mdguidelines.com/' +
        'api/v1/token/GenerateUserToken' +
        '?fname=' + fname +
        '&lname=' + lname +
        '&email=' + email +
        '&userlicensekey=' + userLicense;

    $.ajax({
        url: uri,
        type: 'POST',
        headers: { 'RG-LICENSE-KEY': apiLicense },
        success: function (data) {
            if (data) {
                var token = data;
                //Now use the token in the query string of your
                //url to access MDG.
            }
        },
        error: function (error) {
            //Error handling goes here.
        }
    });
</script>
```



## Document Revision History

Date	Reason For Changes	Document Version
07/29/2016	<p>New version (Token v2) released on July 30, 2016</p> <p>The Token API results are now returned in a structured response (JSON or XML). In addition, the Token API now has a test form in the API Help website.</p> <p>Key Enhancements</p> <ul style="list-style-type: none"> <li>• The token is returned in an element called “value”.</li> <li>• There is a Help test form page for clients to experiment with the functionality prior to implementation.</li> <li>• An XSD is now available.</li> <li>• No other functionality has changed.</li> <li>• Token v1 continues to be supported, with no announced end of support date at this time.</li> </ul>	2.0
04/15/2017	<p>Key changes:</p> <ul style="list-style-type: none"> <li>• Added input parameter “userLicenseKey” to replace the ambiguously-named “licenseKey” to avoid confusion between the API Authentication license key used in the request header and the license key used as a query parameter in the URI to identify which feature license the user will be assigned to.</li> <li>• A parameter of “licenseKey” will still be accepted, however the test page at <a href="https://api.mdguidelines.com/help/token-v2.html">https://api.mdguidelines.com/help/token-v2.html</a> only provides access to the new parameter “userLicenseKey”. If values are provided in both “licenseKey” and “userLicenseKey”, then “licenseKey” will be ignored.</li> <li>• This is a non-breaking change. The version of the end point remains v2.</li> </ul>	2.5
1/12/2023	Misc. Updates and Corrections	3.0