Informatica

Informatica® Data as a Service
1.0

REST Guide

Informatica Data as a Service REST Guide
1.0

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Preface

Read the *REST Guide* for information on how to invoke Informatica Data as a Service web services with the REST protocol. The guide includes the REST endpoints for products such as Email Verification and Global Phone Validation. The guide also includes sample formats for the GET and POST calls that you can make to the products.

Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

Informatica Network

The Informatica Network is the gateway to many resources, including the Informatica Knowledge Base and Informatica Global Customer Support. To enter the Informatica Network, visit https://network.informatica.com.

As an Informatica Network member, you have the following options:

- Search the Knowledge Base for product resources.
- View product availability information.
- Create and review your support cases.
- Find your local Informatica User Group Network and collaborate with your peers.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit https://search.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit https://docs.informatica.com.

If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at infa_documentation@informatica.com.

Informatica Product Availability Matrices

Product Availability Matrices (PAMs) indicate the versions of the operating systems, databases, and types of data sources and targets that a product release supports. You can browse the Informatica PAMs at https://network.informatica.com/community/informatica-network/product-availability-matrices.

Informatica Velocity

Informatica Velocity is a collection of tips and best practices developed by Informatica Professional Services and based on real-world experiences from hundreds of data management projects. Informatica Velocity represents the collective knowledge of Informatica consultants who work with organizations around the world to plan, develop, deploy, and maintain successful data management solutions.

You can find Informatica Velocity resources at http://velocity.informatica.com. If you have questions, comments, or ideas about Informatica Velocity, contact Informatica Professional Services at ips@informatica.com.

Informatica Marketplace

The Informatica Marketplace is a forum where you can find solutions that extend and enhance your Informatica implementations. Leverage any of the hundreds of solutions from Informatica developers and partners on the Marketplace to improve your productivity and speed up time to implementation on your projects. You can find the Informatica Marketplace at https://marketplace.informatica.com.

Informatica Global Customer Support

You can contact a Global Support Center by telephone or through the Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:
https://www.informatica.com/services-and-training/customer-success-services/contact-us.html.

To find online support resources on the Informatica Network, visit https://network.informatica.com and select the eSupport option.

CHAPTER 1

REST Call Creation

This chapter includes the following topics:

- REST Endpoints, 7
- Web Service Credentials, 8
- Request Formats, 8
- Result Format, 9

REST Endpoints

You can use SOAP and REST protocols to invoke Data as a Service web services. This guide describes the processes to invoke the web services with the REST protocol.

Informatica locates the web services that the endpoints identify in the United States and the European Union. Typically, you will make calls to the endpoint closest to your region. The examples in the guide use the United States endpoint, but you can substitute the European Union endpoint.

The base domains for the endpoints are:

United States

https://ws.strikeiron.com

European Union

https://eu-ws.informaticadaas.com

A complete REST endpoint is a combination of the base domain, the product, and the method to execute. For example, here are the endpoints for two methods of Email Verification 7.0 on the United States endpoint:

VerifyEmail

https://ws.strikeiron.com/EmailVerify7/EmailVerification/VerifyEmail

GetRemainingHits

https://ws.strikeiron.com/EmailVerify7/EmailVerification/GetRemainingHits

Web Service Credentials

You can pass your credentials to a web service in the following ways:

- User ID and password. Provide the Data as a Service account user ID and the web service password.

  Note: The web service password can be different from the account password.
- License key. Provide the product-specific license key in the **UserID** field and leave the **Password** field blank.
- Security token. Provide a security token in the **UserID** field and leave the **Password** field blank.

  For more information about security tokens, see the *Informatica OAuth2 User Guide*.

Request Formats

You can structure a REST request in a GET or POST method. The GET and POST methods operate on the web services in an identical fashion.

GET Requests

To create a GET request, you construct a URL that can access the REST endpoint and you include the input parameters that you require as query string parameters.

For example, a REST call to the Email Verification 7.0 VerifyEmail method can take the following form. The bold text represents the input parameters:

```
https://ws.strikeiron.com/EmailVerify7/EmailVerification/VerifyEmail?
Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security_tok
en]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&VerifyEmail.
TimeoutSeconds=[timeout]&VerifyEmail.SourceId=[source_id]&VerifyEmail.MaxSuggestions=[max
_suggestions]&VerifyEmail.RiskProfile=[risk_profile]
```

Note that you can omit any optional parameter that you do not use. For example, the following REST request is valid:

```
https://ws.strikeiron.com/EmailVerify7/EmailVerification/VerifyEmail?
LicenseInfo.RegisteredUser.UserID=LICENSEKEY&VerifyEmail.Email=test-1@strikeiron.com
```

POST requests

The POST method uses the same REST endpoint as the GET method. In a POST method, you POST the input parameters as a payload instead of query string parameters.

The required HTTP header for the operation is **Content-Type**. You must set the header to **application/x-www-form-urlencoded**. When you set the header in this form, the POST payload contains all of the URL-encoded input parameters. For more information about URL encoding, see "URL Encoding" on page 9.

For example, a REST call to Email Verification 7.0 can take the following form. The bold text represents the input parameters:

```
POST /EmailVerify7/EmailVerification/VerifyEmail HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security_tok
en]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&VerifyEmail.
```

```
TimeoutSeconds=[timeout]&VerifyEmail.SourceId=[source_id]&VerifyEmail.MaxSuggestions=[max
_suggestions]&VerifyEmail.RiskProfile=[risk_profile]
```

Note that you can omit any optional parameter that you do not use. For example, the following REST request is valid:

```
POST /EmailVerify7/EmailVerification/VerifyEmail HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

LicenseInfo.RegisteredUser.UserID=LICENSEKEY&VerifyEmail.Email=test-1@strikeiron.com
```

URL Encoding

When you use the GET method, encode any HTTP-reserved character or space.

Character spaces and the following characters are reserved in HTTP:

```
! * ' ( ) ; : & = + $ , / ? # [ ]
```

For example, in the password `auth&123?`, the characters & and ? are problematic because they are reserved. When encoded, the password appears as `auth%26123%3F`.

Secure REST Calls

To make a secure REST call, use `https://` in the URL instead of `http://`. When you use HTTPS in the URL, the protocol encrypts your credentials and all other query string parameters during transit.

Note: In the case of the GET method, the credentials and query string parameters might show up as clear text in web server logs or other places.

Result Format

By default, you receive the results of a REST call in the XML format that follows the schema of SOAP calls. Use the **Format** input field to specify the format in which to receive the results.

You can set the following values in the **Format** input field:

- XML
- JSON

Note: Ensure that you include **Format** as the first input field in a REST call.

The following URL describes a GET request that specifies the JSON format:

```
https://ws.strikeiron.com/EmailVerify7/EmailVerification/VerifyEmail?
Format=JSON&LicenseInfo.RegisteredUser.UserID=LICENSEKEY&VerifyEmail.Email=test-1@strikei
ron.com
```

APPENDIX A

Product Format Reference

This appendix includes the following topic:

- REST Call Formats, 10

REST Call Formats

This appendix contains formats for GET and POST calls that you can make for a range of Informatica Data as a Service products.

Email Verification 6.0

GET

```
https://ws.strikeiron.com/EmailVerify6/EmailVerification/VerifyEmail?
Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&Veri
fyEmail.Timeout=[timeout]&VerifyEmail.OptionalSourceId=[source_id]
```

POST

```
POST /EmailVerify6/EmailVerification/VerifyEmail HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&Veri
fyEmail.Timeout=[timeout]&VerifyEmail.OptionalSourceId=[source_id]
```

Email Verification 6.0 Plus Hygiene

GET

```
https://ws.strikeiron.com/emv6Hygiene/EMV6Hygiene/VerifyEmail?
Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&Veri
fyEmail.Timeout=[timeout]&VerifyEmail.OptionalSourceId=[source_id]
```

POST

```
POST /emv6Hygiene/EMV6Hygiene/VerifyEmail HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
```

```
_token]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&Veri
fyEmail.Timeout=[timeout]&VerifyEmail.OptionalSourceId=[source_id]
```

Email Verification 7.0

GET

```
https://ws.strikeiron.com/EmailVerify7/EmailVerification/VerifyEmail?
Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&Veri
fyEmail.TimeoutSeconds=[timeout]&VerifyEmail.SourceId=[source_id]&VerifyEmail.MaxSugg
estions=[max_suggestions]&VerifyEmail.RiskProfile=[risk_profile]
```

POST

```
POST /EmailVerify7/EmailVerification/VerifyEmail HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&VerifyEmail.Email=[email]&Veri
fyEmail.TimeoutSeconds=[timeout]&VerifyEmail.SourceId=[source_id]&VerifyEmail.MaxSugg
estions=[max_suggestions]&VerifyEmail.RiskProfile=[risk_profile]
```

Global Phone Validation 1.5

GET

```
https://ws.strikeiron.com/GlobalPhoneVal15/GlobalPhoneValidation15/ValidateNumber?
Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&ValidateNumber.PhoneNumber=[nu
mber]
```

POST

```
POST /GlobalPhoneVal15/GlobalPhoneValidation15/ValidateNumber HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&ValidateNumber.PhoneNumber=[nu
mber]
```

Global Phone Validation 2.0

GET

```
https://ws.strikeiron.com/GlobalPhoneVal20/GlobalPhoneValidation20/ValidateNumber?
Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&ValidateNumber.PhoneNumber=[nu
mber]
```

POST

```
POST /GlobalPhoneVal20/GlobalPhoneValidation20/ValidateNumber HTTP/1.1
Host: ws.strikeiron.com
Content-Type: application/x-www-form-urlencoded

Format=[format]&LicenseInfo.RegisteredUser.UserID=[user_id_or_license_key_or_security
_token]&LicenseInfo.RegisteredUser.Password=[password]&ValidateNumber.PhoneNumber=[nu
mber]
```