



Informatica® Email Verification
6.0.0

User Guide

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Preface

This guide describes the operations of the Email Verification application from Informatica.

Informatica Resources

Informatica Network

Informatica Network hosts Informatica Global Customer Support, the Informatica Knowledge Base, and other product resources. To access Informatica Network, visit <https://network.informatica.com>.

As a member, you can:

- Access all of your Informatica resources in one place.
- Search the Knowledge Base for product resources, including documentation, FAQs, and best practices.
- View product availability information.
- 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 search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

To access the Knowledge Base, visit <https://kb.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

To get the latest documentation for your product, browse the Informatica Knowledge Base at https://kb.informatica.com/_layouts/ProductDocumentation/Page/ProductDocumentSearch.aspx.

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

Informatica Product Availability Matrixes

Product Availability Matrixes (PAMs) indicate the versions of operating systems, databases, and other types of data sources and targets that a product release supports. If you are an Informatica Network member, you

can access 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. Developed from the real-world experience of hundreds of data management projects, Informatica Velocity represents the collective knowledge of our consultants who have worked with organizations from around the world to plan, develop, deploy, and maintain successful data management solutions.

If you are an Informatica Network member, you can access 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 augment, extend, or enhance your Informatica implementations. By leveraging any of the hundreds of solutions from Informatica developers and partners, you can improve your productivity and speed up time to implementation on your projects. You can access Informatica Marketplace at <https://marketplace.informatica.com>.

Informatica Global Customer Support

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

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

<http://www.informatica.com/us/services-and-training/support-services/global-support-centers>.

If you are an Informatica Network member, you can use Online Support at <http://network.informatica.com>.

CHAPTER 1

Using Email Verification

This chapter includes the following topics:

- [Introduction to Email Verification, 7](#)
- [Required License Information, 8](#)
- [Available Operations, 9](#)
- [VerifyEmail, 9](#)
- [GetReasonCodes, 10](#)
- [GetRemainingHits, 12](#)
- [GetServiceInfo, 13](#)
- [GetStatusCodes, 14](#)
- [GetStatusCodesForMethod, 15](#)

Introduction to Email Verification

Email Verification uses state-of-the-art email verification algorithms to identify valid and non-valid email addresses.

Service URLs

You can use SOAP and REST endpoints to connect to Email Verification. Informatica provides endpoints to locations in the United States and Europe.

Use one of the following SOAP endpoints:

United States

<https://ws.strikeiron.com/EmailVerify6?WSDL>

Europe

<https://eu-ws.informaticadaas.com/EmailVerify6?WSDL>

Use one of the following REST endpoints:

United States

`https://ws.strikeiron.com/StrikeIron/EmailVerify6/EmailVerification`

Europe

`https://eu-ws.informaticadaas.com/EmailVerify6/EmailVerification`

Required License Information

The LicenseInfo parameter in the web services provides the authentication credentials to allow a user to invoke the web service.

Use the UserID and Password associated with your Informatica DaaS portal account in the UserID and Password fields. Alternatively, you can use the license key that you obtained from Informatica with a blank password field.

The following table describes the output for the license subscription information:

Field Name	Description	Sample Code
LicenseStatusCode	Returns a numeric code indicating the Informatica DaaS license action taken as a result of invoking this operation from the User ID and Password used for input. Valid license codes are 0, 1, and 2. For example, a valid User ID and Password returns the code 0 with a corresponding LicenseStatus value of <i>Valid license key</i> .	0
LicenseStatus	Returns the status of the Informatica DaaS User ID and Password corresponding to the LicenseStatusCode.	Valid license key
LicenseActionCode	Returns a numeric code indicating the Informatica DaaS license action taken as a result of invoking this operation.	0
LicenseAction	Returns the license action taken as a result of invoking this operation from the User ID and Password used corresponding to the LicenseActionCode.	Decrement hit count
RemainingHits	Returns the number of hits against the Informatica DaaS license key used when invoking this operation.	2
Amount	Returns the number of hits used from the Informatica DaaS User ID provided to invoke this operation.	0

Available Operations

The following operations are available in Email Verification:

- **VerifyEmail.** Accepts an email address for verification and returns a response.
- **GetReasonCodes.** Returns a numerical status code and status description that describes the response to your request.
- **GetStatusCodesForMethod.** Returns an enumerated list of the values that appear in the StatusNbr and StatusDescription fields for a given method in the interface.
- **GetStatusCodes.** Returns a complete enumeration of the values that may appear in the StatusNbr and StatusDescription parameter for all methods in the interface.
- **GetServiceInfo.** Returns the date and time of the most recent update to the web service source data.
- **GetRemainingHits.** Returns the number of hits, or calls, that remain in your subscription to the interface.

VerifyEmail

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

Field	Description	Sample Input
Email	The email address that you want to verify. Required value.	john.doe@informatica.com
Timeout	The amount of time, in seconds, that you would like the service to search for the email address. Enter a value between 1 and 90 seconds. Required value.	10
OptionalSourceId	An ID value to return with the result as a source identifier. Optional value.	Source01

ServiceStatus Output

The following table describes the ServiceStatus output fields:

Field	Description	Sample Output
StatusNbr	Returns a number that represents the status of the request. See also GetStatusCodes.	200
StatusDescription	Returns the description of the status number. See also GetStatusCodes.	Email Valid

ServiceResult Output

The following table describes the ServiceResult output fields:

Field	Description	Sample Output
Reason: Code	Further describes the response of the request. Reason code is associated with a Reason Description and is a subset of a Status Number and Description.	201
Reason: Description	Further describes the response of the request. Reason Description is a subset of a Status Number and Description.	Mailbox Confirmed
SourceIdentifier	Value input in the OptionalSourceId parameter.	Source01
Email	The email address that you entered.	johndoe@informatica.com
LocalPart	The local part of the email address that you entered.	johndoe
DomainPart	The domain name in the email address that you entered.	informatica.com
IronStandardCertifiedTimestamp	The date and time at which the email address was checked against real-time data.	2013-03-11T13:23:05.437
DomainKnowledge	Key/Value pairs of domain information.	Key: Disposable Value: true
AddressKnowledge	Key/Value pairs of address information.	Key: Cached Value: true

GetReasonCodes

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

This operation uses the LicenseInfo data and does not require any input.

The operation returns a list of the values that display for the VerifyEmail() method in the ReasonCode and ReasonDescription fields.

ServiceStatus Output

The following table describes the ServiceStatus output fields:

Field	Description	Sample Output
StatusNbr	Returns a number referring to the status of the request. See GetStatusCodes.	200
StatusDescription	Returns the description of the status number. See GetStatusCodes.	Found

ServiceResult Output

The following table describes the possible Reason Codes and Reason Descriptions in the ServiceResult output fields:

Reason Code	Reason Description
201	Mailbox Confirmed
202	User Account Confirmed
203	Mailbox Confirmed but Full
211	Server Will Accept
212	Unable to Verify At This Time
221	Timeout Too Short
222	Server Not Responding
223	Server Deferred
224	Server Throttled
225	Server Actively Rejected
226	Server Connection Lost
301	Missing @ Symbol
302	Bad Domain in Syntax
303	Bad LocalPart Syntax
304	Domain Not Found
305	Not a Valid Mail Domain
306	Mail Domain is Non-Responsive
307	Mailbox Rejected

Reason Code	Reason Description
401	Email is Required
402	Timeout must be greater than 0

GetRemainingHits

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

This operation uses the LicenseInfo data and does not require any input.

The operation returns the number of hits, or calls, that remain in your subscription.

SubscriptionInfo Output

The following table describes the SubscriptionInfo output fields:

Field Name	Description	Sample Code
LicenseStatusCode	Returns a numeric code indicating the Strikelron license action taken as a result of invoking this operation from the User ID and Password used for input. Valid license codes are 0, 1, and 2. For example, a valid User ID and Password returns the code 0 with a corresponding LicenseStatus value of <i>Valid license key</i> .	0
LicenseStatus	Returns the status of the Strikelron User ID and Password that correspond to the LicenseStatusCode.	Valid license key
LicenseActionCode	Returns a numeric code indicating the Strikelron license action taken as a result of invoking this operation. GetRemainingHits returns the code 5 with a corresponding LicenseAction value of Get remaining hits.	5

Field Name	Description	Sample Code
LicenseAction	Returns the license action taken as a result of invoking this operation from the User ID and Password corresponding to the LicenseActionCode.	Decrement hit count
RemainingHits	Returns the number of hits available to the Informatica DaaS user against whose user credentials an operation will run. The RemainingHits value is calculated before the operation runs.	2
Amount	Returns the number of hits consumed by this operation. The operation will deduct the amount of hits from the RemainingHits value.	0
GetRemainingHitsResponse	Returns subscription information.	(none)

GetServiceInfo

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

This operation uses the LicenseInfo data and does not require any input.

The operation displays the last time the webservice source data was updated.

ServiceStatus Output

The following table describes the ServiceStatus output fields:

Field	Description	Sample Output
StatusNbr	Returns a number referring to the status of the operation.	300
StatusDescription	Returns the description of the status number.	Not Found.

ServiceInfoRecord Output

The following table describes the ServiceInfoRecord output fields:

Field	Description
InfoKey	(Reserved for use in a future release.)
InfoValue	(Reserved for use in a future release.)

GetStatusCodes

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

This operation uses the LicenseInfo data and does not require any input.

The operation displays a list of the Status Codes for the webservice that display in the StatusNbr and StatusDescription fields.

ServiceStatus Output

The following table describes the ServiceStatus output fields:

Field	Description	Sample Output
StatusNbr	Returns a number referring to the status of the request. See GetStatusCodes.	200
StatusDescription	Returns the description of the status number. See GetStatusCodes.	Found

MethodStatusRecord Output

The following table describes the StatusNbr and StatusDescription values for the VerifyEmail method:

StatusNbr	StatusDescription
200	Email Valid.
210	Domain Confirmed.
220	Analytics in Progress.
300	Email Not Valid.
400	Invalid Input.
500	Internal Error.

The following table describes the StatusNbr and StatusDescription values for the GetReasonCode method:

StatusNbr	StatusDescription
200	Found.

The following table describes the StatusNbr and StatusDescription values for the GetStatusCodes and GetServiceInfo methods:

StatusNbr	StatusDescription
200	Found.
300	Not Found.
500	Internal Error.

The following table describes the StatusNbr and StatusDescription values for the GetStatusCodesForMethod method:

StatusNbr	StatusDescription
200	Found.
300	Not Found.
400	Invalid Method Name.
500	Internal Error.

GetStatusCodesForMethod

Use the fields in the tables below to configure the input to the operation and to read the output from the operation.

Input

The following table describes the input fields:

Field	Description	Sample Input
MethodName	Enter a method name to obtain a list of the status codes for that method that display in the StatusNbr and StatusDescription fields.	VerifyEmail

ServiceStatus Output

The following table describes the ServiceStatus output fields:

Field	Description	Sample Output
StatusNbr	Returns a number referring to the status of the request. See GetStatusCodes.	200
StatusDescription	Returns the description of the status number. See GetStatusCodes.	Found

ServiceResult Output

The following table describes the possible StatusNbr and StatusDescription values in the ServiceResult output fields:

StatusNbr	StatusDescription
200	Email Valid.
210	Domain Confirmed.
220	Analytics in Progress.
300	Email Not Valid.
400	Invalid Input.
500	Internal Error.

CHAPTER 2

Frequently Asked Questions

This chapter includes the following topics:

- [What is Analytics is Process?, 17](#)
- [What are the Key Value Pairs?, 18](#)

What is Analytics is Process?

Analytics in Process (AIP) is returned when a definitive Email Verification result cannot be reached and we believe further processing could determine a definitive result. When you receive this return code the Strikelron infrastructure is continuing to attempt to resolve your submission. By calling the interface a second time (after a time delay) a definitive result may be available.

One common reason for receiving this return code is that the timeout value you have specified is too short for the specified domain. For example, based on domain knowledge we expect *gmail.com* domains to take several seconds to reply. If you specified a timeout value less than our experience shows is possible, we will return AIP immediately instead of waiting for your call to time out.

Another common reason for receiving this return code is that the target email domain is a "Grey List" server. Grey listing is an attempt to discourage spam. Generally this means that a given email server will refuse connections from other email servers the first time they try to connect. After some time frame (this is server specific and may span a minute or two to twenty minutes or more) if the same email server retries the connection it will be allowed. When you receive AIP, our process will continue to attempt to resolve the address, thus satisfying a grey list email server.

What are the Key Value Pairs?

The Key Value Pairs returned in the verification result provide more information for certain addresses and domains. The values are not an enumerated type, and Informatica reserves the right to add additional information. Code that is written to process these Key Value Pairs should accommodate this fact.

The following DomainKnowledge key value pairs can currently be returned:

Key	Key Value	Description
Disposable	True	Domain is known to provide disposable email addresses.
Potentially Vulgar	True	Domain portion of address is potentially vulgar or offensive.
Possible Correction	Domain suggestion	The "domain suggestion" could be used to replace the current domain information in this email address. Note that all best practices should be observed prior to using the combination of the suggested domain and the local portion of the address as an actual email address.

The following AddressKnowledge key value pairs can currently be returned:

Key	Key Value	Description
Role-Based	True	The email address is commonly associated with a role instead of an individual user.
Potentially Vulgar	True	The local part of this email address is potentially vulgar or offensive.
Possible Correction	Address suggestion	The address suggestion might be used to replace the current local information in this email address. Note: All best practices should be observed prior to using the combination of the suggested address and domain portion of the address as an email address.
Possibly Disposable	True	The local part of the email address follows known patterns of disposable addresses for the specified domain.
Cached	True	This result was returned from the Informatica DaaS email result cache. The "IronStandardCertifiedTimeStamp" field of the results structure shows the time at which the address was verified.