



AcuFill Web Services
Programmer's Guide

March 2018

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March 2018

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Overview

AcuFill Web Services is a Software as a Service (SaaS) solution which is designed to simplify your development efforts. Web Services supports data extraction from driver's licenses, state IDs, other government issued IDs, custom IDs, driver's license barcodes, passports, and medical insurance cards. It also supports document authentication and facial recognition to verify and authenticate the identity.

This document contains a detailed description of the functions that developers need to integrate with AcuFill Web Services.

Note You must have a valid license key in order to execute any Web Services method. Contact sales@acuantcorp.com to obtain a license key.

For IDs and Driver's Licenses from Asia, Australia, Europe, South America, and Africa, we return the date fields in dd-mm-yyyy or dd-mm-yy format. For IDs and Driver's Licenses from United States and Canada, we return the date fields in mm-dd-yyyy or mm-dd-yy format. For a complete list of regions, states, and countries supported for ID processing, please refer to the ScanW document available at: <http://www.id-reader.com/ftp/applications/sdk/docs/ScanW.pdf>.

For Passports of all the regions, we return the date fields in mm-dd-yyyy or mm-dd-yy format.

Data Center Security

Acuant has partnered with Amazon Web Services (AWS) to offer a highly reliable and scalable infrastructure platform in the cloud. AWS's world-class, highly secure data centers utilize state-of-the-art electronic surveillance and multi-factor access control systems. Data centers, located in US., Europe, Brazil, Singapore, Japan, and Australia, are staffed 24x7 by trained security guards, and access is authorized strictly on a least privileged basis.

AWS has achieved ISO 27001 certification and has been validated as a Level 1 service provider under the Payment Card Industry (PCI) Data Security Standard (DSS). AWS undergo annual SOC 1 audits and have been successfully evaluated at the Moderate level for Federal government systems as well as DIACAP Level 2 for DoD systems. Each certification means that an auditor has verified that specific security controls are in place and operating as intended.

Transmission and Network Security

In addition to AWS's cloud infrastructure security, Acuant has implemented numerous security protocols to further enhance the overall security of its Web Services:

- All data transmissions are secured via SSL and HTTPS AES 256-bit encryption to ensure the highest level of security.
- No data and/or images are stored on the servers. Images reported by the customers for support are stored in an encrypted repository.
- All network traffic is controlled by a firewall; access to Web Services is only allowed on specific ports.
- Access to Acuant's Web Services is restricted to users with a valid license key.
- Access to the cloud infrastructure is restricted with a 2-step authentication.
- Prevention against malicious attacks including DoS, DDoS, MITM, IP Spoofing, and Packet sniffing by other tenants have been also implemented.
- Acuant is certified as Safe Harbor Compliant.

Security Audits

Acuant has developed a comprehensive 24x7 monitoring system to insure the health of the network, database and application availability. The monitoring system alerts appropriate staff for immediate action when a threat is detected. Our security team undertakes frequent testing of the system for security vulnerabilities. Appropriate groups are notified if a threat is found. The security group then oversees the changes made to resolve the security issue.

Image Requirements

The following list contains the minimum requirements for submitting images to AcuFill Web Services for processing:

- Color images *only*
- If you are using a scanner to capture the images, please capture cropped 300 dpi images of IDs (front side only), passports, and medical insurance cards.
- 600 dpi image is required if you are capturing both front and back side images of the IDs.
- If you are using a mobile device or any camera- based device, make sure to use a minimum of 5 Megapixel camera to capture the images for AcuFill and 8 Megapixel camera for AssureID.
- The ID image should cover 80% of the overall image.
- Make sure images are not blurry and there is no glare, shadow, or holographic reflection on the images.

AcuFill Web Services supports cropping of uncropped images. See the [Web Services methods](#) to learn how to enable cropping.

If you are sending cropped images, use the following recommended sizes:

Document	Pixel width*
Driver's License/ID	1250 (AcuFill) 2024 (AssureID)
Insurance Card	1500
Passport	1478

*Height adjusted to aspect ratio

Make sure images are not blurry and there are no glare, shadow, or holographic reflection on the images. Cropped sample images for development are located at:

https://www.dropbox.com/s/4sq6rglpesx81w4/Sample_Images.zip?dl=0

Methods

This section describes the following methods:

- [GetLicenseDetails method](#)
- [ProcessDLDuplex method](#)
- [ProcessDriversLicense method](#)
- [ProcessMedInsuranceCard method](#)
- [ProcessPassport method](#)
- [IdentityVerification method](#)
- [KBA method](#)
- [SubmitQuiz method](#)
- [WatchList method](#)
- [GetDLData method](#)
- [GetMedInsuranceData method](#)
- [FacialMatch method](#)
- [TransactionResult method](#)

GetLicenseDetails method

Gets details about the license key

For License key details, see the following:

Web: <http://acuantwebapps.com/Licensing/GetLicenseDetails.htm>

URL: <https://cssnwebservices.com/CSSNService/CardProcessor/GetLicenseDetails>

Help page: <https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/GetLicenseDetails>

Parameters

Input parameter	Data type	Description
LicenseKey	String	Sets the license key (provided by Acuant) in the header of the HTTPS request. <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>

Output parameter	Data type	Description
AccountStatus	Boolean	Indicates whether the account is active Values: True (account is active) False (account is disabled)
AddressVerification	Boolean	Indicates whether address verification is enabled Values: True False
AssureIDAllowed	Boolean	Indicates whether AssureID document authentication is enabled. Values: True False
AssureIDProcesses	Double	Specifies the total AssureID document authentication processes over a month's time
BarcodeAllowed	Boolean	Indicates whether barcode processing is allowed Values: True False
BarcodeProcesses	Double	Specifies the total barcode processes over a month's time
CompanyName	String	Company name associated with the license key
CustomerName	String	Customer name associated with the account
DriversLicenseAllowed	Boolean	Indicates whether Driver's license processing is allowed. Values: True False
DriversLicenseProcesses	Double	Total driver's license processes over a month's time

Output parameter	Data type	Description
Email	String	Email address associated with the license key
InsuranceAllowed	Boolean	Indicates whether medical insurance card processing is allowed. Values: True False
InsuranceProcesses	Double	Total medical insurance card processes in a month
IsLicenseKeyActivated	Boolean	Indicates whether a license key is active Values: True False
PassportAllowed	Boolean	Indicates whether passport processing is allowed Values: True False
PassportProcesses	Double	Total passport processes in a month
ResponseCodeAuthorization	Integer	<i>See error codes and error descriptions</i>
ResponseMessageAuthorization	String	See error codes and error descriptions
SoftwareProvider	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

ProcessDLDuplex method

Processes both front and back side of a driver's license

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/ProcessDLDuplex/{REGIONSET}/{AUTODETECT STATE}/{PROCSTATE}/{GETFACEIMAGE}/{GETSIGNIMAGE}/{REFORMATIMAGE}/{REFORMATIMAGECOLOR}/{REFORMATIMAGEDPI}/{IMAGESOURCE}/{PREPROCIMAGE}/{WIDECHARACTERS}/{LOGTRANSACTION}>

Help page:

https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/DLDuplex_x0020_with_x0020_image_x0020_source_x002C_x0020_pre-processing_x002C_x0020_wide_x0020_characters_x0020_and_x0020_log_x0020_transaction

Parameters

Input parameter	Data type	Description																
LicenseKey	String	Sets the license key (provided by Acuant) in the header of the HTTPS request. <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>																
Images		Front and back images of the ID Note: See the sample code for information about passing the images to Web Services.																
RegionSet	Integer	Integer parameter of the region Values: <table border="1" data-bbox="800 1287 1170 1591"> <tbody> <tr><td>0</td><td>United States</td></tr> <tr><td>4</td><td>Australia</td></tr> <tr><td>5</td><td>Asia</td></tr> <tr><td>1</td><td>Canada</td></tr> <tr><td>2</td><td>America</td></tr> <tr><td>3</td><td>Europe</td></tr> <tr><td>7</td><td>Africa</td></tr> <tr><td>6</td><td>General Documents</td></tr> </tbody> </table>	0	United States	4	Australia	5	Asia	1	Canada	2	America	3	Europe	7	Africa	6	General Documents
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4	Australia																	
5	Asia																	
1	Canada																	
2	America																	
3	Europe																	
7	Africa																	
6	General Documents																	
AutoDetectState	Boolean	Indicates whether Web Services will auto detect the state of the ID. Values: True False (will use the value of ProcState integer)																

ProcessDLDuplex method

Input parameter	Data type	Description				
ProcState	Integer	<p>Integer value of the state to which ID belongs</p> <ol style="list-style-type: none"> If AutoDetectState is True, Web Services will automatically detect the state of the ID and ProcState value will be ignored. If AutoDetectState is False, Web Services will use ProcState integer value for processing. <p>Note: For a complete list of the different countries supported by Web Services and their different State integer values, see the ScanW document: http://www.id-reader.com/ftp/applications/sdk/docs/ScanW.pdf</p>				
GetFacelImage	Boolean	Indicates whether to return the face image from the ID. Values: True False				
GetSignImage	Boolean	Indicates whether to return the signature image from the ID. Values: True False				
ReformatImage	Boolean	Indicates whether Web Services will return the reformatted image from the ID Values: True False				
ReformatImageColor	Integer	<p>Integer value that specifies the color value of the reformatted image Values: 0 1</p> <table border="1"> <tbody> <tr> <td>0</td> <td>Image same color</td> </tr> <tr> <td>1</td> <td>Black and White</td> </tr> </tbody> </table>	0	Image same color	1	Black and White
0	Image same color					
1	Black and White					
ReformatImageDpi	Integer	<p>Integer that indicates what dpi value (up to 600 dpi) to reformat the image Note: The size of the image is dependent on the dpi value; a lower value (150 dpi) is recommended to obtain a smaller image.</p>				

Input parameter	Data type	Description								
ImageSource	Integer	<p>Specifies the source of the image Note: See the Image Requirements section for recommended values.</p> <table border="1"> <tr> <td>101</td> <td>Cropped image from a mobile camera or any other camera Note: Image should be 1250 pixels (width and height based on aspect ratio).</td> </tr> <tr> <td>102</td> <td>Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner Note: If an uncropped image is sent, then specify CropImage as True in the API call.</td> </tr> <tr> <td>103</td> <td>Cropped 300 dpi or 600 dpi image from a SnapShell scanner</td> </tr> <tr> <td>105</td> <td>Miscellaneous. Specify this value if you want the AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.</td> </tr> </table> <p>Note: If ImageSource value is not specified and the input cropped image is not 300 dpi or 600 dpi, then Web Services will resize the input image to 300 dpi and 1250 pixels wide for optimal processing.</p>	101	Cropped image from a mobile camera or any other camera Note: Image should be 1250 pixels (width and height based on aspect ratio).	102	Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner Note: If an uncropped image is sent, then specify CropImage as True in the API call.	103	Cropped 300 dpi or 600 dpi image from a SnapShell scanner	105	Miscellaneous. Specify this value if you want the AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.
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103	Cropped 300 dpi or 600 dpi image from a SnapShell scanner									
105	Miscellaneous. Specify this value if you want the AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.									
PreProclImage	Boolean	<p>Indicates whether to crop the input image Values: True False</p>								
WideCharacters	Boolean	<p>Indicates whether to enable diacritics Values: True False</p>								
LogTransaction	Boolean	<p>Set this to true if you want to save the transaction and retrieve it later from Acuant web services. Values: True False</p>								

Output parameter	Data type	Description
Address	String	Address field on the ID
Address2	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address3	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address4	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address5	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address6	String	Populated when address on the ID has multiple lines, especially IDs in Asia*

ProcessDLDuplex method

Output parameter	Data type	Description
ReformattedImageTwo	Byte	Back image of the ID
FacelImage	Byte	Face picture on the ID
ReformattedImage	Byte	Front image of the ID
SignImage	Byte	Signature name field on the ID
City	String	City field on in the ID
Class	String	Class field on the ID
CountryShort	String	Three-letter country codes as per ISO 3166-1 alpha-3 codes
County	String	County field on the ID
DateOfBirth	String	Date of birth field on the ID with yy year format
DateOfBirth4	String	Date of birth field on the ID with yyyy year format
DateOfBirthLocal	String	Date of birth local field on the ID
DocType	String	Acuant internal field. For internal use only.
Endorsements	String	Endorsements field on the ID
ExpirationDate	String	Expiration date field on the ID in yy year format
ExpirationDate4	String	Expiration date field on the ID in yyyy year format
Eyes	String	Eyes field on the ID
FatherName	String	Father's name field on the ID
Fee	String	Fee field on the ID
Hair	String	Hair field on the ID
Height	String	Height field on the ID
Id	String	ID number field on the ID
IdCountry	String	Full country name field
IsBarcodeRead	Boolean	Indicates whether the barcode on the back side of the ID could be read. Values: True False
IsOcrRead	String	Indicates whether the front side of the ID could be processed. Values: True False
IssueDate	String	Issue date field on the ID with yy year format
IssueDate4	String	Issue date field on the ID in yyyy year format
IssueDateLocal	String	Issue date local field on the ID
MotherName	String	Mother name field on the ID
NameFirst	String	First name field on the ID
NameFirst_NonMRZ	String	First name field on the ID (not MRZ line) **

Output parameter	Data type	Description
NameLast	String	Last name field on the ID
NameLast1	String	Additional last names field on the ID
NameLast2	String	Additional last names field on the ID
NameLast_NonMRZ	String	Last name field on the ID (not MRZ line) **
NameMiddle	String	Middle name field on the ID
NameMiddle_NonMRZ	String	Middle name field on the ID (not MRZ line) **
NameSuffix	String	Name suffix field on the ID
NameSuffix_NonMRZ	String	Name suffix field on the ID (not MRZ line) **
Nationality	String	Nationality field on the ID
Original	String	Original field on the ID
PlaceOfBirth	String	Place of birth field on the ID
PlaceOfIssue	String	Place of issue field on the ID
Restriction	String	Restriction field on the ID
Results2D	Integer	Acuant internal field. For internal use only.
Sex	String	Sex (Gender) field on the ID
SigNum	String	SigNum field on the ID
SocialSecurity	String	Social Security number field on the ID
State	String	State field on the ID
Text1	String	Additional data fields
Text2	String	Additional data fields
Text3	String	Additional data fields
Type	String	Type field on the ID
Weight	String	Weight field on the ID
Zip	String	Zip field on the ID
license	String	License number field on the ID
CSC	String	CSC field on the ID
Audit	String	Audit field on the ID
CardType	String	Type of card mentioned on the ID Note: Only available for few states in the U.S.

Output parameter	Data type	Description
TemplateType	String	Type of template. Values: <ul style="list-style-type: none"> ▪ Not Set ▪ ID ▪ DL ▪ Passport ▪ Club ▪ Military ▪ Member ▪ Resident Permit ▪ Visa ▪ Employee ▪ DVLA ▪ Gun License ▪ Social Security ▪ ID/DL ▪ Professional Regulation Commission ▪ Unified Multi-Purpose ID ▪ Travel Document ▪ Sex Offender ▪ Photo Card ▪ Biometric Passport ▪ Biometric ID
DocumentDetectedName	String	State of issue of the ID
DocumentDetectedNameShort	String	Two-letter state code of the issue state of the ID
AuthenticationResult	String	Authentication result. Values: <ul style="list-style-type: none"> ▪ Passed ▪ Failed ▪ Attention ▪ Unknown <p>See Appendix A: AssureID Authentication for more information about authentication results.</p>
AuthenticationResultSummary	String	If the AuthenticationResult is Attention or Unknown, then AuthenticationResultSummary may contain the summary of reasons for the authentication result. See Appendix A: AssureID Authentication for more information about authentication results.
GetTransactionId	String	Transaction ID
ResponseCodeAuthorization	Integer	<i>See error codes and error descriptions</i>

Output parameter	Data type	Description
ResponseCodeAutoDetectState	Integer	If the value is equal or greater than 0 and you would like to know the state of the ID detected, match the value against the Document/State ID values listed in the ScanW document: http://www.id-reader.com/ftp/applications/sdk/docs/ScanW.pdf State definitions are also available
ResponseCodeAutoDetectStateDesc	String	See error codes and error descriptions
ResponseCodeGetFacelImage	Integer	See error codes and error descriptions
ResponseCodeGetFacelImageDesc	String	See error codes and error descriptions
ResponseCodeGetSignImage	Integer	See error codes and error descriptions
ResponseCodeGetSignImageDesc	String	See error codes and error descriptions
ResponseCodeProcState	Integer	See error codes and error descriptions
ResponseCodeProcStateDesc	String	See error codes and error descriptions
ResponseCodeReformatImage	Integer	See error codes and error descriptions
ResponseCodeReformatImageDesc	String	See error codes and error descriptions
ResponseCodeReformatImageTwo	Integer	See error codes and error descriptions
ResponseCodeReformatImageTwoDesc	String	See error codes and error descriptions
ResponseCodeRegionSet	Integer	See error codes and error descriptions
ResponseCodeRegionSetDesc	String	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

* Not applicable to U.S., Canadian, and Australian IDs

ProcessDriversLicense method

Processes front side only of the driver's license

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/ProcessDriversLicense/{REGIONSET}/{AUTODETECTSTATE}/{PROCSTATE}/{GETFACEIMAGE}/{GETSIGNIMAGE}/{REFORMATIMAGE}/{REFORMATIMAGECOLOR}/{REFORMATIMAGEDPI}/{PREPROCIMAGE}/{IMAGESOURCE}/{WIDECHARACTERS}/{LOGTRANSACTION}>

Help page:

https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/DL_x0020_with_x0020_preprocessing_x002C_x0020_image_x0020_source_x002C_x0020_wide_x0020_characters_x0020_and_x0020_log_x0020_transaction

Parameters

Input parameters	Data type	Description																
LicenseKey	String	License key provided by Acuant Set license key in the header of the HTTPS request: <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>																
Images		Front and back images of the ID. See the sample code on how to pass the images to Web Services.																
RegionSet	Integer	Integer parameter of the region Values: <table border="1"> <tbody> <tr> <td>0</td> <td>United States</td> </tr> <tr> <td>4</td> <td>Australia</td> </tr> <tr> <td>5</td> <td>Asia</td> </tr> <tr> <td>1</td> <td>Canada</td> </tr> <tr> <td>2</td> <td>America</td> </tr> <tr> <td>3</td> <td>Europe</td> </tr> <tr> <td>7</td> <td>Africa</td> </tr> <tr> <td>6</td> <td>General Documents</td> </tr> </tbody> </table>	0	United States	4	Australia	5	Asia	1	Canada	2	America	3	Europe	7	Africa	6	General Documents
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4	Australia																	
5	Asia																	
1	Canada																	
2	America																	
3	Europe																	
7	Africa																	
6	General Documents																	
AutoDetectState	Boolean	Indicates whether Web Services will auto detect the state of the ID. Values: True False (will use the value of ProcState integer)																

Input parameters	Data type	Description				
ProcState	Integer	<p>Integer value of the state to which ID belongs</p> <p>3. If AutoDetectState is True, Web Services will automatically detect the state of the ID and ProcState value will be ignored.</p> <p>4. If AutoDetectState is False, Web Services will use ProcState integer value for processing.</p> <p>Note: For a complete list of the different countries supported by Web Services and their different State integer values, see the ScanW document: http://www.id-reader.com/ftp/applications/sdk/docs/ScanW.pdf</p>				
GetFacelImage	Boolean	Indicates whether Web Services returns the face image from the ID. Values: True False				
GetSignImage	Boolean	Indicates whether Web Services returns the signature image from the ID. Values: True False				
ReformatImage	Boolean	Indicates whether Web Services returns the reformatted image from the ID. Values: True False				
ReformatImageColor	Integer	<p>Integer value that specifies the color value of the reformatted image. Values:</p> <table border="1"> <tr> <td>0</td> <td>Image same color</td> </tr> <tr> <td>1</td> <td>Black and White</td> </tr> </table>	0	Image same color	1	Black and White
0	Image same color					
1	Black and White					
ReformatImageDpi	Integer	<p>Integer that indicates what dpi value (up to 600 dpi) to reformat the image</p> <p>Note: The size of the image is dependent on the dpi value; a lower value (150 dpi) is recommended to obtain a smaller image.</p>				
PreProclImage	Boolean	Indicates whether to crop the input image Values: True False				

Input parameters	Data type	Description								
ImageSource	Integer	<p>Specifies the source of the image Note: See the Image Requirements section for recommended values.</p> <table border="1"> <tr> <td>101</td> <td>Cropped image from a mobile camera or any other camera. Image should be 1250 pixels (width and height based on aspect ratio).</td> </tr> <tr> <td>102</td> <td>Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner Note: If uncropped image is sent, then specify CropImage as True in the API call.</td> </tr> <tr> <td>103</td> <td>Cropped 300 dpi or 600 dpi image from the SnapShell scanner</td> </tr> <tr> <td>105</td> <td>Miscellaneous. Specify this value if you want AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.</td> </tr> </table> <p>Note If ImageSource value is not specified and the input cropped image is not 300 dpi or 600 dpi, then Web Service will resize the input image to 300 dpi and 1250 pixels wide for optimal processing.</p>	101	Cropped image from a mobile camera or any other camera. Image should be 1250 pixels (width and height based on aspect ratio).	102	Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner Note: If uncropped image is sent, then specify CropImage as True in the API call.	103	Cropped 300 dpi or 600 dpi image from the SnapShell scanner	105	Miscellaneous. Specify this value if you want AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.
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103	Cropped 300 dpi or 600 dpi image from the SnapShell scanner									
105	Miscellaneous. Specify this value if you want AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.									
WideCharacters	Boolean	<p>Indicates whether to enable diacritics Values: True False</p>								
LogTransaction	Boolean	<p>Set this to true if you want to save the transaction and retrieve it later from Acuant web services. Values: True False</p>								

Output parameters	Data type	Description
Address	String	Address on the ID
Address2	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address3	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address4	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address5	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address6	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
FacelImage	Byte	Face picture on the ID
ReformattedImage	Byte	Front image on the ID

Output parameters	Data type	Description
SignImage	Byte	Signature name field on the ID
City	String	City field on in the ID
Class	String	Class field on the ID
CountryShort	String	Three-letter country codes as per ISO 3166-1 alpha-3 codes
County	String	County field on the ID
DateOfBirth	String	Date of birth field on the ID with yy year format
DateOfBirth4	String	Date of birth field on the ID with yyyy year format
DateOfBirthLocal	String	Date of birth local field on the ID
DocType	String	<i>Acuant internal field. For internal use only.</i>
Endorsements	String	Endorsements field on the ID
ExpirationDate	String	Expiration date field on the ID with yy year format
ExpirationDate4	String	Expiration date field on the ID with yyyy year format
Eyes	String	Eyes field on the ID
FatherName	String	Father name field on the ID
Fee	String	Fee field on the ID
Hair	String	Hair field on the ID
Height	String	Height field on the ID
Id	String	ID number field on the ID
IdCountry	String	Full country name
IssueDate	String	Issue date field on the ID with yy year format
IssueDate4	String	Issue date field on the ID with yyyy year format
IssueDateLocal	String	Issue date local field on the ID
MotherName	String	Mother name field on the ID
NameFirst	String	First name field on the ID
NameFirst_NonMRZ	String	First name field on the ID (not MRZ line) **
NameLast	String	Last name field on the ID

ProcessDriversLicense method

Output parameters	Data type	Description
NameLast1	String	Additional last names on the ID
NameLast2	String	Additional last names on the ID
NameLast_NonMRZ	String	Last name field on the ID (not MRZ line)**
NameMiddle	String	Middle name field on the ID
NameMiddle_NonMRZ	String	Middle name field on the ID (not MRZ line)**
NameSuffix	String	Name suffix field on the ID
NameSuffix_NonMRZ	String	Name suffix field on the ID (not MRZ line)**
Nationality	String	Nationality field on the ID
Original	String	Original field on the ID
PlaceOfBirth	String	Place of birth field on the ID
PlaceOfIssue	String	Place of issue field on the ID
Restriction	String	Restriction field on the ID
Sex	String	Sex (Gender) field on the ID
SigNum	String	SigNum field on the ID
SocialSecurity	String	Social Security number field on the ID
State	String	State field on the ID
Text1	String	Additional data fields
Text2	String	Additional data fields
Text3	String	Additional data fields
Type	String	Type field on the ID
Weight	String	Weight field on the ID
Zip	String	Zip field on the ID
license	String	License number field on the ID
CSC	String	CSC field on the ID
Audit	String	Audit field on the ID
CardType	String	Type of card mentioned on the ID Note: Only available for few states in the U.S.

Output parameters	Data type	Description
TemplateType	String	Type of template Values: 5. Not Set 6. ID 7. DL 8. Passport 9. Club 10. Military 11. Member 12. Resident Permit 13. Visa 14. Employee 15. DVLA 16. Gun License 17. Social Security 18. ID/DL 19. Professional Regulation Commission 20. Unified Multi-Purpose ID 21. Travel Document 22. Sex Offender 23. Photo Card 24. Biometric Passport 25. Biometric ID
DocumentDetectedName	String	State of issue of the ID
AuthenticationResult	String	Authentication result Values: 26. Passed 27. Failed 28. Attention 29. Unknown See Appendix A: AssureID Authentication for more information about authentication results.
AuthenticationResultSummary	List	If AuthenticationResult is Attention or Unknown, then AuthenticationResultSummary may contain the summary of reasons for the authentication result. See Appendix A: AssureID Authentication for more information about authentication results.
GetTransactionId	String	Transaction ID
ResponseCodeAuthorization	Integer	<i>See error codes and error descriptions</i>

ProcessDriversLicense method

Output parameters	Data type	Description
ResponseCodeAutoDetectState	Integer	If the value is equal or greater than 0 and you would like to know the state of the ID detected, please match the value against the Document/State ID values described in the ScanW document: http://www.id-reader.com/ftp/applications/sdk/docs/ScanW.pdf . State definitions are also available See error codes and error descriptions
ResponseCodeAutoDetectStateDesc	String	See error codes and error descriptions
ResponseCodeGetFacelImage	Integer	See error codes and error descriptions
ResponseCodeGetFacelImageDesc	String	See error codes and error descriptions
ResponseCodeGetSignImage	Integer	See error codes and error descriptions
ResponseCodeGetSignImageDesc	String	See error codes and error descriptions
ResponseCodeProcState	Integer	See error codes and error descriptions
ResponseCodeProcStateDesc	String	See error codes and error descriptions
ResponseCodeReformatImage	Integer	See error codes and error descriptions
ResponseCodeReformatImageDesc	String	See error codes and error descriptions
ResponseCodeRegionSet	Integer	See error codes and error descriptions
ResponseCodeRegionSetDesc	String	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

*Not applicable to U.S., Canadian, and Australian IDs

** Valid *only* for IDs which have an MRZ line, such as European IDs

ProcessMedInsuranceCard method

Processes medical insurance cards

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/ProcessMedInsuranceCard/{REFORMATIMAGE}/{REFORMATIMAGECOLOR}/{REFORMATIMAGEDPI}/{PREPROCIMAGE}/{LOGTRANSACTION}>

Help page:

https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/ProcessMedInsuranceCard_x0020_with_x0020_log_x0020_transaction

Parameters

Input parameters	Data type	Description				
LicenseKey	String	Sets license key (provided by Acuant) in the header of the HTTPS request <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>				
Images		Front and back images of the ID See the sample code for information about passing the images to Web Services				
ReformatImage	Boolean	Indicates whether Web Services returns the reformatted image from the ID Values: True False				
ReformatImageColor	Integer	Integer value that specifies the color value of the reformatted image Values: <table border="1" data-bbox="873 1423 1425 1528"> <tr> <td>0</td> <td>Image same color</td> </tr> <tr> <td>1</td> <td>Black and White</td> </tr> </table>	0	Image same color	1	Black and White
0	Image same color					
1	Black and White					
ReformatImageDpi	Integer	Integer that indicates what dpi value (up to 600 dpi) to reformat the image Note: The size of the image is dependent on the dpi value; a lower value (150 dpi) is recommended to obtain a smaller image.				
PreProclmage	Boolean	Indicates whether to crop the input image Values: True False				

ProcessMedInsuranceCard method

Input parameters	Data type	Description								
LogTransaction	Boolean	Set this to true if you want to save the transaction and retrieve it later from Acuant web services. Values: True False								
ImageSource	Integer	<p>Specifies the source of the image Note: See the Image Requirements section for recommended values.</p> <table border="1"> <tbody> <tr> <td>101</td> <td>Cropped image from a mobile camera or an Note: Image should be 1250 pixels (width and aspect ratio).</td> </tr> <tr> <td>102</td> <td>Cropped 300 dpi or 600 dpi image from Scan any TWAIN scanner Note: If an uncropped image is sent, then specify True in the API call.</td> </tr> <tr> <td>103</td> <td>Cropped 300 dpi or 600 dpi image from a Scanner</td> </tr> <tr> <td>105</td> <td>Miscellaneous. Specify this value if you want Web Services to resize the image for optimal processing works with both CropImage True or False.</td> </tr> </tbody> </table> <p>Note: If ImageSource value is not specified and the input cropped image is not 300 dpi or 600 dpi, then Web Services will resize the input image to 300 dpi and 1250 pixels wide for optimal processing.</p>	101	Cropped image from a mobile camera or an Note: Image should be 1250 pixels (width and aspect ratio).	102	Cropped 300 dpi or 600 dpi image from Scan any TWAIN scanner Note: If an uncropped image is sent, then specify True in the API call.	103	Cropped 300 dpi or 600 dpi image from a Scanner	105	Miscellaneous. Specify this value if you want Web Services to resize the image for optimal processing works with both CropImage True or False.
101	Cropped image from a mobile camera or an Note: Image should be 1250 pixels (width and aspect ratio).									
102	Cropped 300 dpi or 600 dpi image from Scan any TWAIN scanner Note: If an uncropped image is sent, then specify True in the API call.									
103	Cropped 300 dpi or 600 dpi image from a Scanner									
105	Miscellaneous. Specify this value if you want Web Services to resize the image for optimal processing works with both CropImage True or False.									

Output parameters	Data type	Description
ReformattedImageTwo	Byte	Back image of the ID
ReformattedImage	Byte	Front image of the ID
ContractCode	String	Contract code on the ID
CopayEr	String	CopayEr field on the ID
CopayOv	String	CopayOv field on the ID
CopaySp	String	CopaySp field on the ID
CopayUc	String	CopayUc field on the ID
Coverage	String	Coverage field on the ID
DateOfBirth	String	Date of birth field on the ID
Deductible	String	Deductible field on the ID
EffectiveDate	String	Effective date field on the ID

Output parameters	Data type	Description
Employer	String	Employer field on the ID
ExpirationDate	String	Expiration date field on the ID
FirstName	String	First name field on the ID
GroupName	String	Group name field on the ID
GroupNumber	String	Group number field on the ID
IssuerNumber	String	Issuer number field on the ID
LastName	String	Last name field on the ID
ListAddress { City FullAddress State Street Zip }	List	Address field on the ID
ListDeductible { Label Value }	List	Deductibles field on the ID
ListEmail { Label Value }	List	Emails field on the ID
ListPlanCode { PlanCode }	List	Plan codes field on the ID
ListTelephone { Label Value }	List	Telephone numbers field on the ID
ListWeb { Label Value }	List	Web address field on the ID
MemberId	String	Member ID field on the ID
MemberName	String	Member name field on the ID
MiddleName	String	Middle name field on the ID

Output parameters	Data type	Description
NamePrefix	String	Name prefix field on the ID
NameSuffix	String	Name suffix field on the ID
Other	String	Other field on the ID
PayerId	String	Payer ID field on the ID
PlanAdmin	String	Plan admin field on the ID
PlanProvider	String	Plan provider field on the ID
PlanType	String	Plan type field on the ID
RxBin	String	RxBin field on the ID
RxGroup	String	RxGroup field on the ID
RxId	String	RxID field on the ID
RxPcn	String	RxPCN field on the ID
GetTransactionId	String	Transaction ID field on the ID
RawText	String	Raw unstructured text from the medical insurance card
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseCodeProcMedicalCard	Integer	See error codes and error descriptions
ResponseCodeProcMedicalCardDesc	String	See error codes and error descriptions
ResponseCodeReformatImage	Integer	See error codes and error descriptions
ResponseCodeReformatImageDesc	String	See error codes and error descriptions
ResponseCodeReformatImageTwo	Integer	See error codes and error descriptions
ResponseCodeReformatImageTwoDesc	String	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

ProcessPassport method

Processes passport’s face image information page.

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/ProcessPassport/{GETFACEIMAGE}/{GETSIGNIMAGE}/{REFORMATIMAGE}/{REFORMATIMAGECOLOR}/{REFORMATIMAGEDPI}/{PREPROCIIMAGE}/{IMAGESOURCE}/{WIDECCHARACTERS}/{LOGTRANSACTION}>

Help page:

https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/Passport_x0020_with_x0020_image_x0020_source_x002C_x0020_wide_x0020_characters_x0020_and_x0020_log_x0020_transaction

Parameters

Input parameter	Data type	Description				
LicenseKey	String	Sets license key (provided by Acuant) in the header of the HTTPS request: <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>				
Images		Face picture side image of the passport. See the sample code on how to pass the images to Web Services.				
GetFacelImage	Boolean	Indicates whether to return the face image from the passport Values: True False				
GetSignImage	Boolean	Indicates whether to return the signature image from the passport Values: True False				
ReformatImage	Boolean	Indicates whether Web Services returns the reformatted image from the passport Values: True False				
ReformatImageColor	Integer	Integer value that specifies the color value of the reformatted image Values: 0 1 <table border="1" data-bbox="771 1627 1323 1732"> <tr> <td>0</td> <td>Image same color</td> </tr> <tr> <td>1</td> <td>Black and White</td> </tr> </table>	0	Image same color	1	Black and White
0	Image same color					
1	Black and White					
ReformatImageDpi	Integer	Integer that indicates what dpi value (up to 600 dpi) to reformat the image				

Input parameter	Data type	Description								
		Note: The size of the image is dependent on the dpi value; a lower value (150 dpi) is recommended to obtain a smaller image.								
PreProclImage	Boolean	Indicates whether to crop the input image Values: True False								
ImageSource	Integer	<p>Specifies the source of the image. See the Image Requirements section for more information about these values.</p> <table border="1"> <tbody> <tr> <td>101</td> <td>Cropped image from a mobile camera or any other camera. Image should be 1250 pixel wide and height based on aspect ratio.</td> </tr> <tr> <td>102</td> <td>Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner. If uncropped image is sent, then please specify CropImage True in the API call.</td> </tr> <tr> <td>103</td> <td>Cropped 300 dpi or 600 dpi image from SnapShell scanner.</td> </tr> <tr> <td>105</td> <td>Miscellaneous. Specify this value if you want AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.</td> </tr> </tbody> </table> <p>Note: If ImageSource value is not specified and the input cropped image is not 300 dpi or 600 dpi, then Web Services will resize the input image to 300 dpi 1250 pixels width for optimal processing.</p>	101	Cropped image from a mobile camera or any other camera. Image should be 1250 pixel wide and height based on aspect ratio.	102	Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner. If uncropped image is sent, then please specify CropImage True in the API call.	103	Cropped 300 dpi or 600 dpi image from SnapShell scanner.	105	Miscellaneous. Specify this value if you want AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.
101	Cropped image from a mobile camera or any other camera. Image should be 1250 pixel wide and height based on aspect ratio.									
102	Cropped 300 dpi or 600 dpi image from ScanShell scanner or any TWAIN scanner. If uncropped image is sent, then please specify CropImage True in the API call.									
103	Cropped 300 dpi or 600 dpi image from SnapShell scanner.									
105	Miscellaneous. Specify this value if you want AcuFill Web Services to resize the image for optimal processing. This value works with both CropImage True or False.									
WideCharacters	Boolean	Indicates whether to enable diacritics Values: True False								
LogTransaction	Boolean	Set this to true if you want to save the transaction and retrieve it later from Acuant web services. Values: True False								

Output parameters	Data type	Description
Address2	String	Address field on the passport
Address3	String	Populated when address on the passport has multiple lines, especially IDs in Asia*
Country	String	Three-letter country codes as per ISO 3166-1 alpha-3 codes
CountryLong	String	Full country name on the passport
DateOfBirth	String	Date of birth field on the passport with mm-dd-yy year format

Output parameters	Data type	Description
DateOfBirth4	String	Date of birth field on the passport with yyyy year format
End_POB	String	End POB field on passport
ExpirationDate	String	Expiration date field on the passport with yy year date format
ExpirationDate4	String	Expiration date field on the passport with yyyy year format
IssueDate	String	Issue date field on the passport with yy year format
IssueDate4	String	Issue date field on the passport with yyyy year format
NameFirst	String	First name field on the MRZ line on the passport
NameFirst_NonMRZ	String	First name field on the passport
NameLast	String	Last name field on the MRZ line on the passport
NameLast_NonMRZ	String	Last name field on the passport
NameMiddle	String	Middle name field on the MRZ line on the passport
Nationality	String	Three-letter country codes as per ISO 3166-1 alpha-3 codes for nationality country.
NationalityLong	String	Full country name for nationality on the passport
PassportNumber	String	Passport number field on the passport
PersonalNumber	String	Personal number field on the passport
Sex	String	Sex (Gender) field on the passport
AuthenticationResult	String	Authentication result Values: <ul style="list-style-type: none"> ▪ Passed ▪ Failed ▪ Attention ▪ Unknown See Appendix A: AssureID Authentication for more information about authentication results.

ProcessPassport method

Output parameters	Data type	Description
AuthenticationResultSummary	List	If AuthenticationResult is Attention or Unknown, then AuthenticationResultSummary may contain the summary of reasons for the authentication result. See Appendix A: AssureID Authentication for more information about authentication results.
GetTransactionId	String	Transaction ID on the passport
FacelImage	Byte	Face image on the passport
ReformattedImage	Byte	Passport image on the passport
SignImage	Byte	Sign image on the passport
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseCodePassportFacelImage	Integer	See error codes and error descriptions
ResponseCodePassportFacelImageDesc	String	See error codes and error descriptions
ResponseCodePassportSignatureImage	Integer	See error codes and error descriptions
ResponseCodePassportSignatureImageDesc	String	See error codes and error descriptions
ResponseCodeProcPassport	Integer	See error codes and error descriptions
ResponseCodeProcPassportDesc	String	See error codes and error descriptions
ResponseCodeReformatImage	Integer	See error codes and error descriptions
ResponseCodeReformatImageDesc	String	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

*Not applicable to U.S., Canadian, and Australian IDs

IdentityVerification method

Verifies the address or identity of an individual

URL: <https://cssnwebservices.com/CSSNService/CardProcessor/IdentityVerification/{ADDRESSVERIFICATION}/{IDENTITYVERIFICATION}>

Help page:

<https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/IdentityVerification>

User Identity Details

Name	Data Type	Description				
FirstName	String	First name of the person (Required) Note: Title, middle initial or middle name cannot be part of the first name.				
MiddleName	String	Middle name of the person				
LastName	String	Last name of the person (Required) Note: Suffix can't be part of the last name.				
DateOfBirth	String	Date of birth in the format: mm-dd-yyyy (Only required if IdentityVerification input parameter is set to true)				
Address	String	For example, 123 Main St. Apt 6.				
City	String	The person's city information				
Zip	String	Postal Code (Required only for the US)				
State	String	U.S. two-character state (Required only for the US)				
Country	String	Set the country of the person. ISO 3166 Country Code (2-letter) (Required) http://www.iso.org/iso/country_codes/iso_3166_code_lists/english_country_names_and_code_elements.htm				
County	String	Set the county of the person. (Ireland only) Submit either county code or county name.				
IdType	Integer	ID type (Optional). Values: <table border="1" data-bbox="587 1541 1032 1642"> <tr> <td>4</td> <td>Driver's License No.</td> </tr> <tr> <td>19</td> <td>U.S. Social Security Number</td> </tr> </table>	4	Driver's License No.	19	U.S. Social Security Number
4	Driver's License No.					
19	U.S. Social Security Number					
IdNumber	String	ID number based on IdType (Optional). Values: <table border="1" data-bbox="587 1688 1032 1789"> <tr> <td>4</td> <td>Driver's License Number</td> </tr> <tr> <td>19</td> <td>U.S. Social Security Number</td> </tr> </table>	4	Driver's License Number	19	U.S. Social Security Number
4	Driver's License Number					
19	U.S. Social Security Number					

Parameters

Input parameters	Data type	Description
AddressVerification	Boolean	Indicates whether to verify name to address Values: True False
IdentityVerification	Boolean	Indicates whether to verify identity Values: True False
LicenseKey	String	Sets the license key (provided by Acuant) in the header of the HTTPS request <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>
{ userIdentityDetails { FirstName, MiddleName, LastName, DateOfBirth, Address City, Zip, State, Country, IdNumber, IdType} } }	String	String in JSON format passed to the body of the request containing the details of the person that needs to be verified DateOfBirth in mm-dd-yyyy format

Output parameters	Data type	Description
NameToAddressMatch	Boolean	Indicates a name to address match Values: True False
IdentityVerification	Boolean	Specifies whether the identity is verified Values: True False
SSNVerification	Boolean	Specifies whether the Social Security Number is verified Values: True False

Output parameters	Data type	Description																						
DMVVerification	Boolean	Indicates whether DMV verification was successful Note: Only the following states are supported for DMV verification. <table border="1" data-bbox="834 436 1096 957"> <tbody> <tr><td>CT</td><td>Connecticut</td></tr> <tr><td>CO</td><td>Colorado</td></tr> <tr><td>ME</td><td>Maine</td></tr> <tr><td>MI</td><td>Michigan</td></tr> <tr><td>MO</td><td>Missouri</td></tr> <tr><td>OH</td><td>Ohio</td></tr> <tr><td>OR</td><td>Oregon</td></tr> <tr><td>TN</td><td>Tennessee</td></tr> <tr><td>TX</td><td>Texas</td></tr> <tr><td>WI</td><td>Wisconsin</td></tr> <tr><td>WY</td><td>Wyoming</td></tr> </tbody> </table>	CT	Connecticut	CO	Colorado	ME	Maine	MI	Michigan	MO	Missouri	OH	Ohio	OR	Oregon	TN	Tennessee	TX	Texas	WI	Wisconsin	WY	Wyoming
CT	Connecticut																							
CO	Colorado																							
ME	Maine																							
MI	Michigan																							
MO	Missouri																							
OH	Ohio																							
OR	Oregon																							
TN	Tennessee																							
TX	Texas																							
WI	Wisconsin																							
WY	Wyoming																							
IDNumberFormatVerification	Boolean	Indicates whether the ID number format is correct Values: True False																						
TransactionID	String	Unique identifier for the transaction																						
ResponseCodeAuthorization	Integer	See error codes and error descriptions																						
ResponseMessageAuthorization	String	See error codes and error descriptions																						
WebResponseCode	Integer	See error codes and error descriptions																						
WebResponseDescription	String	See error codes and error descriptions																						
ValidationErrorCodes	Integer	See error codes and error descriptions																						
ValidationErrorMessages	Array of String	See error codes and error descriptions																						
WebResponseDescription	String	See error codes and error descriptions																						

KBA method

Requests a quiz that contains several personal questions to verify an individual

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/KBA>

Help page:

<https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/KBA>

User Identity Details

Name	Data Type	Description
ApplicantId	String	Unique session ID generated by on the first request to Web Services. This element is left empty on the first request. Use the ApplicantId generated by Web Service for each subsequent request.
FirstName	String	An individual's first name (Required) Note: Title, middle initial or middle name can't be part of the first name.
MiddleName	String	An individual's middle name (Optional)
LastName	String	The last name of the person (Required) Note: Suffix can't be part of the last name.
DateOfBirth	String	Date of Birth in either mm-dd-yyyy format (Required)
Address	String	Address of the individual (Required) For example, 123 Main St. Apt 6.
City	String	An individual's city information (Required)
Zip	String	Postal Code (Required)
State	String	U.S. two-character-state (Required)
Ssn	String	Social Security Number (Optional)

Parameters

Input parameters	Data type	Description
LicenseKey	String	License key provided by Acuant Set license key in the header of the HTTPS request: <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>
{ userIdentityDetails{ ApplicantId, FirstName, MiddleName, LastName, DateOfBirth, Address, City, Zip, State, Ssn } }	String	String in JSON format passed to the body of the request containing the details of the person that needs to be verified. Note: Date of Birth must be in mm-dd-yyyy format.

ApplicantId	Data type	Description
ApplicantId	String	Unique session ID generated by on the first request to Web Services Note: This element is left empty on the first request. Use the ApplicantId generated by Web Services for each subsequent request.
NumberOfQuestions	Integer	Number of questions
Questions [{ Choices, String, String, String, QuestionId, QuestionText }]	String	Contains the unique identifier of the question, questions and choices
KBAErrorCode	Integer	See error codes and error descriptions
KBAErrorDescription	String	See error codes and error descriptions

KBA method

ApplicantId	Data type	Description
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

SubmitQuiz method

Sends the answers after calling the KBA function or after calling SubmitQuiz function. An additional question will be returned by Web Services if the client answered one of the questions incorrectly.

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/SubmitQuiz>

Help page:

<https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/SubmitQuiz>

Parameters

Input parameters	Data type	Description
LicenseKey	String	LicenseKey provided by Acuant. Set license key in the header of the HTTPS request. <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()) ; xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>
ApplicantId	String	Unique session ID generated by on the first request to Web Services. This element is left empty on the first request. Use the ApplicantId generated by Web Services for each subsequent request.
NumberOfQuestions	Integer	Number of questions
Answers [[QuestionId, ItemAnswer}, { QuestionId, ItemAnswer }, { QuestionId, ItemAnswer }]	String	Answer to each question

SubmitQuiz method

Output Parameters	Data type	Description								
ApplicantId	String	Unique session ID generated by on the first request to Web Services. This element is left empty on the first request. Use the ApplicantId generated by Web Services for each subsequent request.								
NumberOfQuestions	Integer	Number of questions								
Questions [{ Choices , String, String, String, QuestionId, QuestionText }]	String	Contains the unique identifier of the question, questions and choices.								
Status	Integer	Status Codes: <table border="1" data-bbox="781 898 1273 1033"> <tr> <td>1</td> <td>Quiz Generated</td> </tr> <tr> <td>2</td> <td>No Quiz Generated</td> </tr> <tr> <td>3</td> <td>Error</td> </tr> <tr> <td>4</td> <td>Time Out</td> </tr> </table>	1	Quiz Generated	2	No Quiz Generated	3	Error	4	Time Out
1	Quiz Generated									
2	No Quiz Generated									
3	Error									
4	Time Out									
ResponseCodeAuthorization	Integer	See error codes and error descriptions								
ResponseMessageAuthorization	String	See error codes and error descriptions								
WebResponseCode	Integer	See error codes and error descriptions								
WebResponseDescription	String	See error codes and error descriptions								

WatchList method

Checks an identity against multiple Watch Lists

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/WatchList>

Help page:

<https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/WatchList>

Watch List Details

Name	Data Type	Description
FirstName	String	An individual's first name (Required) Note: Title, middle initial or middle name can't be part of the first name.
LastName	String	An individual's last name (Required) Note: Suffix can't be part of the last name.
DOB	String	Date of Birth in MM-DD-YYYY format (Required)
Address	String	Address For example, 123 Main St. Apt 6.
Zip	String	Postal Code (Required)
Country	String	Country either in ISO "ALPHA-2 Code or in ISO ALPHA-3 Code (Required)
WatchListName	List	Watch list name to get results of a specific watch list (Optional) For example, U.S. Department of the Treasury - Office of Foreign Assets Control. When specified, only specified watch list results are returned.

Parameters

Input parameters	Data type	Description
LicenseKey	String	LicenseKey provided by Acuant Set license key in the header of the HTTPS request: <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>
<pre>{ watchListInput { FirstName, LastName, DOB, Address, City, Zip, Country, WatchListName, } }</pre>	String	String in JSON format passed to the body of the request containing the details of the person that needs to be verified. DateOfBirth in mm-dd-yyyy format Country either in ISO "ALPHA-2 Code or in ISO ALPHA-3 Code

Output parameters	Data type	Description
ValidationErrorCodes	List	Validation error codes list
ValidationErrorMessages	List	Validation error messages list
WatchListResponse	String	Watch list response
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

GetDLData method

Gets driver's license information posted by idScan or MedicScan Connect software only

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/GetDLData>

Help page:

<https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/GetDLData>

Parameters

Input parameters	Data type	Description
AccessKey	String	Each machine has an AccessKey, which can be obtained from idScan/MedicScan connect software. Set access key in the header of the HTTPS request: <pre>var authinfo = \$.base64.encode(accessKey); xhr.setRequestHeader("Authorization", "AccessKey" + authinfo);</pre>

Output parameters	Data type	Description
Address	String	Address on the ID
Address2	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address3	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address4	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address5	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Address6	String	Populated when address on the ID has multiple lines, especially IDs in Asia*
Base64BackReformattedImage	String	Back image of the ID
Base64FacelImage	String	Face picture on the ID
Base64FrontReformattedImage	String	Front image of the ID
Base64SignImage	String	Signature name on the ID
City	String	City on in the ID
Class	String	Class on the ID
CountryShort	String	Three-letter country codes as per ISO 3166-1 alpha-3 codes
County	String	County on the ID

GetDLData method

Output parameters	Data type	Description
DateOfBirth4	String	Date of birth on the ID with yyyy year format
DateOfBirthLocal	String	Date of birth local on the ID
DocType	String	Acuant internal field. For internal use only.
Endorsements	String	Endorsements on the ID
ExpirationDate4	String	Expiration date on the ID with yyyy year format
Eyes	String	Eyes on the ID
FatherName	String	Father name on the ID
Fee	String	Fee on the ID
Hair	String	Hair on the ID
Height	String	Height on the ID
Id	String	ID number on the ID
IdCountry	String	Full country name on the ID
IsBarcodeRead	Boolean	Indicates that the barcode on the back side of the ID could be read. Values: True False
IsOcrRead	Boolean	Indicates that the barcode on the front side of the ID could be read. Values: True False
IssueDate4	String	Issue date field on the ID with yyyy year format
IssueDateLocal	String	Issue date local field on the ID
MotherName	String	Mother name field on the ID
NameFirst	String	First name field on the ID
NameFirst_NonMRZ	String	First name field on the ID (not MRZ line)**
NameLast	String	Last name field on the ID
NameLast1	String	Additional last names on the ID
NameLast2	String	Additional last names on the ID
NameLast_NonMRZ	String	Last name field on the ID (not MRZ line)**
NameMiddle	String	Middle name on the ID
NameMiddle_NonMRZ	String	Middle name field on the ID (not MRZ line)**
NameSuffix	String	Name suffix on the ID
NameSuffix_NonMRZ	String	Name suffix field on the ID (not MRZ line)**
Nationality	String	Nationality field on the ID
Original	String	Original field on the ID
PlaceOfBirth	String	Place of birth field on the ID
PlaceOfIssue	String	Place of issue field on the ID

Output parameters	Data type	Description
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
Restriction	String	Restriction on the ID
Results2D	Integer	Acuant internal field. For internal use only.
Sex	String	Sex (Gender) on the ID
SigNum	String	SigNum on the ID
SocialSecurity	String	Social Security number on the ID
State	String	State on the ID
Text1	String	Additional data fields
Text2	String	Additional data fields
Text3	String	Additional data fields
Type	String	Type on the ID
WebResponseCode	<i>Integer</i>	<i>See error codes and error descriptions</i>
WebResponseDescription	<i>String</i>	<i>See error codes and error descriptions</i>
Weight	String	Weight on the ID
Zip	String	Zip on the ID
License	String	License number on the ID
CardType	String	Type of card mentioned on the ID Note: Only available for few states in the U.S.

GetDLData method

Output parameters	Data type	Description
TemplateType	String	Type of template. Values: <ul style="list-style-type: none"> ▪ Not Set ▪ ID ▪ DL ▪ Passport ▪ Club ▪ Military ▪ Member ▪ Resident Permit ▪ Visa ▪ Employee ▪ DVLA ▪ Gun License ▪ Social Security ▪ ID/DL ▪ Professional Regulation Commission ▪ Unified Multi-Purpose ID ▪ Travel Document ▪ Sex Offender ▪ Photo Card ▪ Biometric Passport ▪ Biometric ID
DocumentDetectedName	String	State of issue of the ID
DocumentDetectedNameShort	String	State of issue of the ID

** Valid *only* for IDs which have an MRZ line, such as European IDs

GetMedInsuranceData method

Gets medical insurance card information posted by MedicScan Connect software

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/GetMedInsuranceData>

Help page:

<https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/GetMedInsuranceData>

Parameters

Input parameters	Data type	Description
AccessKey	String	Each machine has an AccessKey, which can be obtained from MedicScan connect software. Set access key in the header of the HTTPS request. <pre>var authinfo = \$.base64.encode(accessKey); xhr.setRequestHeader("Authorization", "AccessKey " + authinfo);</pre>

Output parameters	Data type	Description
Base64BackReformattedImage	String	Back image of the ID
Base64FrontReformattedImage	String	Front image of the ID
ContractCode	String	Contract code field on the ID
CopayEr	String	CopayEr field on the ID
CopayOv	String	CopayOv field on the ID
CopaySp	String	CopaySp field on the ID
CopayUc	String	CopayUc field on the ID
Coverage	String	Coverage field on the ID
DateOfBirth	String	Date of birth field on the ID
Deductible	String	Deductible field on the ID
EffectiveDate	String	Effective date field on the ID
Employer	String	Employer field on the ID
ExpirationDate	String	Expiration date field on the ID
FirstName	String	First name field on the ID

GetMedInsuranceData method

Output parameters	Data type	Description
GroupName	String	Group name field on the ID
GroupNumber	String	Group number field on the ID
IssuerNumber	String	Issuer number field on the ID
LastName	String	Last name field on the ID
ListAddress [{ City FullAddress State Street Zip }]	List	Address field on the ID
ListDeductible [{ Label Value }]	List	Deductibles field on the ID
ListEmail [{ Label Value }]	List	Emails field on the ID
ListPlanCode [{ PlanCode }]	List	Plan codes field on the ID
ListTelephone [{ Label Value }]	List	Telephone numbers field on the ID
ListWeb [{ Label Value }]	List	Web address field on the ID
MemberId	String	MemberID field on the ID
MemberName	String	Member name field on the ID
MiddleName	String	Middle name field on the ID
NamePrefix	String	Name prefix field on the ID
NameSuffix	String	Name suffix field on the ID
Other	String	Other field on the ID

Output parameters	Data type	Description
PayerId	String	Payer ID field on the ID
PlanAdmin	String	Plan admin field on the ID
PlanProvider	String	Plan provider field on the ID
PlanType	String	Plan type field on the ID
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
RxBin	String	RxBin field on the ID
RxGroup	String	RxGroup field on the ID
RxId	String	RxID field on the ID
RxPcn	String	RXPCN field on the ID
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

FacialMatch method

Matches two facial images.

URL:

<https://cssnwebservices.com/CSSNService/CardProcessor/FacialMatch/{LOGTRANSACTION}>

Help page:

https://cssnwebservices.com/CSSNService/CardProcessor/help/operations/Face_x0020_image_x0020_recognition_x0020_with_x0020_log_x0020_transaction

Parameters

Input parameter	Data type	Description
LicenseKey	String	License key provided by Acuant Set license key in the header of the HTTPS request: <pre>var authInfo = \$.base64.encode(\$("#txtLicenseKey").val()); xhr.setRequestHeader("Authorization", "LicenseKey " + authInfo);</pre>
Images		Two facial images to be matched. Please refer to the sample code on how to pass the facial images to the request.
LogTransaction	Boolean	Set this to true if you want to save the transaction and retrieve it later from Acuant web services. Values: True False

Output parameter	Data type	Description
FacialMatch	Boolean	Indicates whether two face images match or not.
FacialMatchConfidenceRating	Integer	Facial match confidence rating out of 100. A score of 80 or above indicates two face images match.
ManualReview	Boolean	Indicates whether the face images were sent for manual review or not. Note: This option only returns true if you have subscribed for DocX FRM.
TransactionId	String	Unique Transaction ID for the transaction.
ResponseCodeAuthorization	Integer	See error codes and error descriptions
ResponseMessageAuthorization	String	See error codes and error descriptions
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

TransactionResult method

Provides the result of a transaction

URL:

<https://cssnwebservices.com/CSSNService/cardprocessor/TransactionResult/>

Help page:

<https://cssnwebservices.com/CSSNService/cardprocessor/help/operations/TransactionResult>

Parameters

Input parameter	Data type	Description
TransactionID	String	Unique ID for the transaction

Output parameters	Data type	Description
BackImage	Byte	Back image of the document
CreatedDate	String	Date and time at which the request was received
ErrorCode	Integer	A number less than 1 indicates an error See error codes and error descriptions
ErrorDescription	String	See error codes and error descriptions
FrontImage	Byte	Front image of the document
ProcessingTime	Integer	Time, in milliseconds, for the server to process a transaction
RequestParams	String	Request parameters that are sent with the request
TemplateType	String	Document template type Values: <ul style="list-style-type: none"> ▪ Not Set ▪ ID ▪ DL ▪ Passport ▪ Club ▪ Military ▪ Member ▪ Resident Permit ▪ Visa ▪ Employee ▪ DVLA ▪ Gun License ▪ Social Security ▪ ID/DL

TransactionResult method

Output parameters	Data type	Description
		<ul style="list-style-type: none"> ▪ Professional Regulation Commission ▪ Unified Multi-Purpose ID ▪ Travel Document ▪ Sex Offender ▪ Photo Card ▪ Biometric Passport ▪ Biometric ID
WebResponseCode	Integer	See error codes and error descriptions
WebResponseDescription	String	See error codes and error descriptions

Error Codes and Error Descriptions

This section describes the error codes and error descriptions returned by AcuFill Web Services.

Response Code Authorizations

Response code	Authorization message
-8	Unable to process request; invalid credentials
-9	Account disabled
-12	Unauthorized to Process Driver's License
-15	Unable to process
-17	Unauthorized to Process Passport
-18	Unauthorized to Process Barcode
-20	Unauthorized to process medical insurance cards
-26	Credentials required
-27	Basic authentication or Unique ID authentication was not recognized
-28	No Authorization header specified
-41	Invalid License Key
-44	License Key disabled
-46	License Key needs to be activated
-70	Unauthorized to Process Barcode String
-98	Address Verification Limit has been reached
-99	Unauthorized to verify address
-100	Unauthorized to verify identity
-103	Unauthorized to verify user details
-107	Unauthorized to process KBA
-108	KBA Limit has been reached
-118	Unauthorized to verify social identity

Response Codes

Response code	Description
1	No Error
-1	State not Recognized
-2	State not Supported
-3	Bad Parameters
-4	No Match Found
-5	Error in Opening the File
-6	Bad Destination File
-7	Feature not Supported
-8	Country not Initialized
-9	No Next Country
-10	State not Initialized
-11	No Next State
-12	Cannot Delete the Destination File
-13	Cannot Copy to the Destination Location
-14	Face Image or Signature Image not Found
-15	State not Recognized
-16	USA Templates not Found
-17	Wrong Template File
-18	Region not Initialized
-19	Auto Detection of State not Supported
-20	Compare no Text
-21	Compare no Barcode
-22	Compare Barcode Library not Found
-23	Compare License does not Match Barcode Library
-24	DM Library not Found
-25	DM Library not Loaded
-26	DM WM not Found
-27	DM WM not Authenticated
-28	UV Error - Bank not Found
-29	UV Error - Region not Supported
-30	UV Error - Image File Missing
-31	UV Error - Image Loading Failed
-32	UV Error - Template not Implemented

Response code	Description
-33	UV Authentication Failed
-200	Image Missing Stamp or SDK Missing Activation Code

Get Response Codes

Response code	Description
0	Error In Processing
1	No Error

Barcode Response Codes

Response code	Description
0	No Barcode Found
1	No Error
-1	Bad Parameter

Passport Response Codes

Response code	Description
-40	Bad Parameters
-41	Cannot Delete the Destination File
-42	Cannot Copy to the Destination Location
-43	Cannot Delete the Destination Image

Medical Card Response Codes

Response code	Description
-1	File not Found
-2	Unable to Load the File
-3	No text found the Card
-4	Unable to Load the Image
-5	Invalid Field
-6	No Data
-7	Last Data
-8	Next Data Exists

Reformat Image Response Codes

Response code	Description
0	No Error
-100	Error in Opening the File
-101	Bad Image Angle
-102	Bad Image Angle
-103	Bad Image File Destination
-104	Error in Saving the File
-105	Error in Saving the File to Clipboard
-106	Error in Opening the File
-107	Error in Opening the File
-108	Unknown File Combo Type
-109	Image Bad Parameters
-130	Image Bad Color
-131	Image Bad dpi
-132	Invalid Internal Image
-133	Bad Image Dump
-134	Bad Image Dimensions
-200	Image Missing Stamp

Registration Error Codes

Error code	Error message
-65	Customer name is required
-66	Email Address is required
-67	Email address has an invalid format
-68	License Code is required
-69	Company Name is required

Validation Error Codes

Error Code	Error message
-36	Address required
-37	City required
-38	State required
-39	Zip required
-66	Email required
-77	Input required to save log
-81	First name is a required input
-82	Last name is a required input
-86	Date of Birth required
-87	Input required to process verification
-88	App Name input required
-89	Key input required
-90	Error input required
-92	Input required to process social verification
-95	Date is invalid
-97	ID Type is not within the list of acceptable ID Types

Web Response Codes

Response code	Description
7	Client passed the quiz
1	Successful
0	Failed
-1	Image is null
-3	Unable to parse parameter: {parameter}
-4	Value is out of range for: {parameter}
-5	Parameter autoDetectState value cannot be equal to 'false' if procState is equal to '-1'
-6	Image not valid
-8	Unable to process request; invalid credentials
-9	Account disabled
-11	Unexpected error occurred
-15	Unable to process
-16	Not able to crop the image
-21	Only uploading of one or two images are allowed
-22	Unable to process
-25	An argument exception occurred
-31	Front and back images of the card are required for upload
-32	Input Unique ID required
-34	WebP Image is not supported for this function
-35	Address verifier failed to initialize
-40	Getting license details for this kind of authentication is not supported
-41	Invalid License Key
-42	Account status or License Key Activation status is unrecognized
-44	License Key disabled
-46	License Key needs to be activated
-47	Text extraction was not successful
-50	Invalid Access Key
-51	Cannot return data; failed to delete record
-53	Data not found
-54	ID image only or both ID image and Barcode image are required for upload
-56	Unauthorized authentication type detected
-57	Input barcode string is required
-58	Front Image and Barcode String are required

Response code	Description
-61	Maximum number of machines is already registered with this License Code
-63	This machine is already registered
-66	Email Address is required
-71	Your account is not allowed to report images
-72	Card type unknown
-73	One image upload is required
-74	Upload at least one image
-75	No record found
-83	Unable to parse input image. Please check the format of the request.
-84	Unable to parse the input image and text file. Please check the format of the request.
-91	Error in getting machine count
-93	No verification option selected
-104	Error has occurred in generating quiz
-105	No quiz generated
-106	Timeout has occurred in generating quiz
-109	Client failed to pass the quiz
-110	Error has occurred while evaluating the quiz answers
-111	Answers are incomplete. All questions must be answered.
-112	Applicant ID is required
-113	Number of questions must be greater than zero
-114	The identity verification is not available at this moment. Please try again later.
-115	The quiz generation is not available at this moment. Please try again later.
-117	Social identity cannot be verified at this moment. Please try again later.
-120	Could not generate KBA. KBA velocity reached.

License Key Activation Descriptions

Activation description
License Key was activated successfully.
This license key is already activated.
License Key disabled.
Invalid License Key

New License Key Error Descriptions

Error description
License Key not found.
Account disabled.
Key reset required. The key is not activated.

KBA Error Code Descriptions

Error code	Description
2001	Missing Zip/Postal Code
2002	No Account Found
2003	Account Closed
2004	Invalid DOB
2005	Account Not Opened
2006	Invalid Zip/Postal Code
2007	Database Error Occurred
2008	Missing State
2009	DOB out of valid range for verification (such as 1/1/1995)
2010	DOB before 1900
2011	Missing or Invalid Verification Data
2012	Missing DOB
2013	Zip/State do not match
2015	Must provide State or Zip
2016	XX: Country Not Supported
2017	ID# Not Submitted
2030	VME is not available
2031	Invalid IP
2032	Invalid ID

Error code	Description
2050	Missing First Name
2051	Missing Last Name
2052	Missing Address
2070	Missing Contact Phone
2071	Missing Contact Email
2072	Missing Contact Amount
2073	Missing Phone
2074	Missing Social Security No.
2079	Missing/Invalid Mobile Number
2080	Missing/Invalid County
2085	Missing Answers to Quiz
2999	Invalid Acct Type
2110	E-Sig Failure
4000	Provider Error
4001	Provider Timeout
5001	Insufficient Data (The identity was found but there is not sufficient data to generate quiz questions)
5002	Individual not valid (The identity was found but either the Name, DOB, or SSN does not match the values in our data)
5003	Invalid Applicant ID
5004	Maximum attempts hit for Individual
5005	Invalid Request
5006	Quiz Expired
5007	Identity not Found

HTTP Error Code Descriptions

Error code	Description
429	Too many requests
500	Server internal error
503	Service unavailable
504	Gateway timeout

Note A 200 HTTP response is returned for any other type of error and returns the errors in the response body.

Appendix A: AssureID Authentication

AssureID performs a number of tests on a document to determine its authenticity. Each document type in the AssureID Document Library contains a defined set of individual authentication tests that is relevant for that particular document type only. The set of authentication tests performed on one type of document will not be the same as the set of tests performed on another type, although many of the same tests are used. The number and types of authentication tests will vary for a particular document, but a typical document will be subjected to 10–50 individual authentication tests. For example, one test may confirm the presence of security features and/or patterns on the document under one or more light sources, and another may compare the data from different sources on the document (such as MRZ and e-Passport chip).

Authentication Test Descriptions

The following table describes the AssureID authentication tests:

Note This is not a comprehensive list. Not every test is executed on every type of document. These names do *not* represent actual authentication test names.

Authentication test	Description
2D barcode	Verifies that the barcode was both read successfully and the contents were extracted.
2D barcode format validation	Verifies that two-dimensional barcode could both be read successfully and decoded. Fails if the 2D barcode could not be correctly decoded, which could be a result of incorrectly encoding, either inadvertently due to a manufacturing problem, or intentionally.
Data validity tests	Reads the multiple data sources on a document and verifies that no widespread differences exist in the data between data sources, which may indicate that the document has either been tampered with or is a counterfeit.
Field crosschecks	Compares the fields between two or more data elements in multiple locations on a document (such as visual, 2D barcode, magnetic stripe, or contactless chip) to verify that they match.
Magnetic stripe	Verifies that the magnetic stripe on the document was read successfully and the contents were extracted.
Microprint/microtext detection	Verifies that a microscopic text security feature is present and in the expected location on the document.
MRZ check digit validation	Checks the digits in the machine-readable zone (MRZ) to verify that the data was correctly interpreted. Validates the visible personal number check digit by comparing it with a calculated check digit from the visible personal number element.
Near-infrared pattern	Verifies that a security feature, visible in the near-infrared spectrum, is present and in the expected location on the document.

Appendix A: AssureID Authentication

Authentication test	Description
Near-infrared response	<p>Verifies that a region of the document responds as expected when viewed under near-infrared illumination. This test may be used to determine:</p> <ul style="list-style-type: none"> ▪ The integrity of the photo (detect photo substitutions) ▪ That the document is not counterfeit ▪ That the document has not been tampered with or modified <p>Note Text, photos, and other features on a document may not be visible under near-infrared, depending on the type of ink used. The presence or absence of these features may indicate that the document has either been tampered with or is a counterfeit.</p>
Photo substitution detection	<p>Detects any digital image tampering.</p> <p>Note The ability to detect photo tampering attempts will vary by document type (some documents provide more photo protection features than others).</p>
Photo printing verification	<p>Verifies that a detailed printing technique was used on the photo. This test may be used to verify:</p> <ul style="list-style-type: none"> ▪ The integrity of the photo (detect photo substitutions) ▪ That the document is not counterfeit
Retroreflective laminate detection	<p>Tests for images or text incorporated into the lamination of the document that are revealed by indirect light.</p>
RFID	<p>Verifies that the chip was present and that the chip was both read successfully and the contents were extracted.</p>
RFID chip authentication	<p>Verifies that the appropriate document and country verifying certificates are available. This test may fail if:</p> <ul style="list-style-type: none"> ▪ The document was prematurely removed from the reader ▪ The contactless chip is faulty ▪ The contactless chip is not genuine due to replacement (country and document certificates do not match)
Ultraviolet (UV) pattern match	<p>Verifies that a security feature, visible in the ultraviolet spectrum, is present and in the expected location on the document.</p>
Ultraviolet response	<p>Verifies that a region of the document responds as expected when viewed under ultraviolet (UV) illumination. This test may be used to determine:</p> <ul style="list-style-type: none"> ▪ The integrity of the photo (detect photo substitutions) ▪ That the document is not counterfeit ▪ That the document has not been tampered with or modified <p>Note Text, photos, and other features on a document may not be visible under near-infrared, depending on the type of ink used. The presence or absence of these features may indicate that the document has either been tampered with or is a counterfeit.</p>
Visible pattern match	<p>Verifies that a security feature in the visible spectrum is present and in the expected location on the document.</p>

Authentication results

The failure of a single authentication test will not necessarily result in overall document authentication failure. Each test is evaluated and the resulting value is then used to calculate the authentication result of the test itself, which indicates whether this particular test passed or failed. By performing more authentication tests, the sensitivity of the individual tests can be reduced, which will result in fewer false rejects (authentic documents being flagged as suspect). In most cases, fraudulent documents will tend to fail a number of authentication tests.

There are several variables that are more likely to cause a document to fail:

- Image capture quality (for example blurriness or reflection)
- Personalization of the document (such as especially long names)
- Variations in manufacturing techniques (for example card printed on wrong side or slight variations in printing location)
- Wear and aging of the document (a worn or dirty card can cause failure)
- Tampering and counterfeiting (unlawful changes or reproduction of documents)

Evaluating authentication results

These are the possible results that may be returned from an individual authentication test:

Result	Description
Passed	No indication that the document is fraudulent, therefore the document passed the authentication process. This result does not provide a guarantee of authenticity as some types of documents have very few or no security features.
Failed	One or more authentication tests have failed that indicate that the document may be fraudulent, therefore the document failed the authentication process. This result does not guarantee that the document is fraudulent; however, further investigation should be conducted, either by manual inspection or by using other means to verify the identity of the bearer.
Attention	Document passed the authentication process, however, there is something of note that the user should be aware of. Most commonly this is result is returned when an expired document is encountered. In this case, the document may be authentic, but has expired.
Unknown	Document type could not be determined; therefore, it cannot be authenticated. This result may occur when a document is inserted incorrectly, overly skewed, or moved during the image capture process. Less commonly, it may also be encountered when a new type of document is captured that is not yet supported by the AssureID document library. This result does not indicate that the document is fraudulent, however further investigation should be conducted, either by manual inspection or by using other means to verify the identity of the bearer.
Skipped	The authentication process was skipped entirely. This result should only be seen when using the Data Capture edition of AssureID.

IMPORTANT! A **Caution** result will *only* be returned as an individual test result (not as an overall result). It indicates a borderline test result between **Passed** and **Failed**, indicating that an authentication's finding is not ideal but also not a strong indicator of a problem.

Attention result

If a document passes with **Attention** for the document result, you should review the tests that were attributed to the result. For example, an **Attention** can occur if a document has expired. Depending on business rules, this may be very important (such as in the case of passport validity). An **Attention** can also occur if the back side of the document could not be classified, for example, possibly indicating that someone has falsified the document. If you have a document that has failed some individual authentication tests, you can modify the authentication sensitivity and then run a new transaction to see what overall result changes occur.

Authentication check	Description
2D barcode read	Verifies that two-dimensional barcode on the document was read successfully
Chip authentication	Verifies that contactless chip in document is authentic
Contactless chip presence	Checks for the presence of a contactless chip in the document
Contactless chip read	Verifies that the contactless chip, if present, was read successfully
Document classification	Verifies that type of document is supported and can be fully authenticated
Document expired	Checks whether a document has expired
Document orientation	Checks that a document was presented in a correct orientation (dependent on the magstripe location)
Magstripe presence	Checks for the presence of a magnetic stripe on the document
Magstripe read	Verifies that the magnetic stripe, if present, was read successfully