

KYC – Result Fields Documentation

Table of contents

Version Control	2
Result Fields	3
How to interpret the results of Validation	16
Suggestion of how Interpreting result fields.....	18
Considerations.....	20
Casuistry sending two sides of a document	20
Country Keys.....	21
Contact information	22

Version Control

Author: Patricio Ibarreche Reyes	Revision:	Approved:	
Date: 11-03-2020	Date:	Date:	
Version Control			
Version	Date	Author	Description
1.0	11-03-2020	Patricio Ibarreche Reyes	First Version

Result Fields

The list of result values has the following attributes for each

- **Type.** Type of the field (Normal / Validation).
- **Code.** Corresponds to the identifiers listed in the RESULT FIELDS table.
- **Value.** Field value.
For “Normal” fields, it contains the value read from the document.
For “Validation” fields, this field contains the result test as in RESULT FIELDS: OK, DOUBTFULL, FAIL and UNVALIDATED [optionally the unvalidation reason can be returned between parenthesis]
- **Description.** Field description and usually the same as code.

List of fields

Field	Description	Value	Value description
Data Field read.			
MODEL_ID	Model identifier of the identified document.		
TYPE	Document type.	IDENTITY	Identity card.
		PASSPORT	Passport.
		DRIVER_LICENSE	Driver license.
		VISA	Visa.
		TRIPULATION	Crew card.
		RESIDENT_CARD	Resident card.
		PERSONAL_CARD	Custom card type.
		NONREAD_MRZ_DOCUMENT	MRZ document not properly recognized.
EXPEDITOR	ICAO key which refers to the document expeditor country.	See APPENDIX A. ICAO COUNTRY KEYS	
NATIONALITY	ICAO key which refers to the document bearer nationality.	See APPENDIX A. ICAO COUNTRY KEYS.	
SIDE	Document side.	1	Front side.
		2	Back side.
		0	Information integration of more than one side of the document.

MODEL	Model Identifier for the identified document.	Same values as MODEL_ID.	Appears if ICAR_CFG_OBTAIN_MODEL_ID property value is set to <i>true</i> .
OPPOSITE	Model Identifier for the opposite side of the identified document.	Same values as MODEL_ID.	Appears if ICAR_CFG_OBTAIN_MODEL_ID property value is set to <i>true</i> .
NAME	Document bearer name.		
SURNAME	Document bearer surname. If the bearer has more than one surname and they are separately written, some SURNAME fields, containing each one of the surnames, will be returned in order. If the surnames are not separately written, only one SURNAME field will be returned.		
DOC_NUMBER	Document number. Only document number in the expeditor country. This number appears in almost all official documents.		
ID_NUMBER	Personal identification number. This number optionally appears in official documents.		
PERSONAL_ID	Personal identification number used by the issuing state. It appears in European Health Insurance Cards.		
SIDES_NUMBER	Number of sides of the document identified.		
ADDRESS	Document bearer address. More than one field could be returned for composed addresses.		
STREET_ADDRESS	Street address. This field is available when it appears separated from other address fields in the document.		
CITY_ADDRESS	City. This field is available when it appears separated from other address fields in the document.		
STATE_ADDRESS	State or province. This field is available when it appears separated from other address fields in the document.		
ZIP	ZIP code. This field is available when it appears separated from other address fields in the document.		
BIRTHPLACE	Place of birth.		
BIRTHDATE	Document bearer birthday.		
EXPEDITION_DATE	Document expedition date.		
EXPIRY	Document expiration date.	Date or PERMANENT	Instead of date can be found a permanent string. Then is returned PERMANENT.
SEX	Document bearer gender.	M	Male.
		F	Female.

MRZ	Machine Readable Zone content. More than one field could be returned depending on the number of ICAO lines.		
PARENTS	Parents' name.		
ENTRY_DATE	Date of country entrance.		
GRANT_REASON	Reason for granting the document.		
SURNAME_AUX	Other surnames, like family or marital name.		
CITY_ISSUED	City of issue.		
ID_FISCAL	Fiscal identification number (Portugal ID).		
HEALTH_NUMBER	Health user number (Portugal ID).		
INSTITUTION	Competent institution of insurance or residence in European Health Insurance Cards.		
HEIGHT	Height.		
AUTHORITY	Authority.		
FORM_ID	Form identifier in European Health Insurance Cards.	E-111	
		E-111+	
		E-111B	
EQUIPO	Code of the document issuer.		
MAIDEN_NAME	Maiden name.		
AGE	Age.		
REGISTRY_FOLIO	Registry Folio.		
STATE	State.		
MUNICIPALITY	Municipality.		
LOCALITY	Locality.		
SECTION	Section.		
REGISTRY_YEAR	Registry year.		
ELECTOR_ID	Elector ID.		
EYE_COLOR	Eye color.		
PERSONAL_NUMBER	Personal number.		
TAX_NUMBER	Tax number.		
SOCIAL_SECURITY_NUMBER	Social Security number.		In Portuguese Identity Cards.
CPF	Individual registration		In Brazilian documents (Cadastro de pessoa física)
SEGURANCA	Insurance Number		

ADDITIONAL_INFO	Additional info for CNH		In Brazilian driving license.
CNH	Driver License number		In Brazilian driving license (Carteira nacional de Habilitação)
SIGNATURE_INFO	Additional information about the signature.	UNABLE_TO_SIGN	The document holder is not able to sign.
Other Fields			
CROPPING_OUTPUT_IMAGE_INFO	Information field on the border replication for the output image. This field only appears when the output image is cropped with border values replicated.	WARNING	The output image is cropped with border replication.
Image Quality Fields			
QUALITY_IMAGE_COMPRESSION	Information field on the quality of the image to be processed considering the compression factor of the jpeg image. Only available for scanned images from disk. Calculate the compression factor and returns the numeric value and its evaluation. When integrating the two sides of the same document, the result for both sides, always in order Front-Reverse, appears.	IQ_NORESULT NO_QUANTIZATION_TABLE	Evaluation not done. No quantization table found.
		IQ_NORESULT NO_JPG_IMAGE	Evaluation not done. The image is not a jpeg image format.
		IQ_POOR N	N <= 90
		IQ_GOOD N	N < 90
QUALITY_IMAGE_SIZE	Information field on the quality of the image to be processed considering the image size. When integrating the two sides of the same document, the result for both sides, always in order Front-Reverse, appears.	IQ_GOOD Width X height	Width >= 640 height >= 400 or Width >= 400 height >= 640
		IQ_POOR width X height	Width >= 640 height >= 400 or Width >= 400 height >= 640
QUALITY_IMAGE_RESOLUTION	Information field on the quality of the image to be processed considering the image resolution. Calculates the image resolution, dots per inch, and returns the numeric value and its evaluation.	IQ_GOOD <i>Resolution</i> dpi	Resolution > 180
		IQ_POOR <i>resolution</i> dpi	Resolution < 180
QUALITY_IMAGE_LUMINANCE	Information field on the quality of the image to be processed considering the image luminance. Calculates two values for saturation and darkness and gives a qualitative value.	IQ_GOOD [sat, drk]	Color image: Sat < 0.6 and drk < 0.8 gray scale image: Sat < 0.5 and Drk < 0.5
		IQ_POOR [sat, drk]	Color image: Sat > 0.6 or Drk > 0.8 gray scale image: Sat > 0.5 or Drk > 0.5
QUALITY_IMAGE_HIGHLIGHTS	Information field on the highlights on the input image.	IQ_GOOD	

		IQ_POOR	Too many highlights present on the image
QUALITY_IMAGE_BLURRING	Information field on the blurring on the input image in %.	IQ_GOOD %	<50%
		IQ_POOR %	>50%
TEST_COLOR_IMAGE	Checks if the image is a color image or not.	OK	Color image
		DOUBTFUL	No confirmation.
		FAIL	Not a color image.
TEST_COHERENCE_EXPIRY	Test to evaluate the coherence between the expiry date and the other data read from the document. Only available for Spanish identity card.	OK	The expiry date is coherent
		FAIL	The expiry date is not coherent
TEST_EXPIRY_DATE	Expiry date check. Compares the system date with the expiry date of the document.	OK	The document is valid.
		FAIL	The document has expired.
		UNVALIDATED	Value was read but could not be validated.
TEST_TYPOGRAPHY	Check field to field text font. Only for identity and immigration Spanish cards.	OK	Text Font is correct.
		FAIL	Text Font is not correct.
TEST_OVERLAPPED_PHOTO_DETECTION	Verifies that the photo present in the document has not been overlapped. NOTE: Only available for models IDESPC1, IDPOLA1 and IDCOLA1.	OK	Photo has not been overlapped
		FAIL	Photo has been overlapped
		DOUBTFUL	Not sure. Visual inspection needed.
		UNVALIDATED	Could not locate the photo or the overlapped trained model.
TEST_VIZ_RG_VALID_NUMBER	Checks length of document number. Checks if document number value is smaller than maximum value for the issuing state.	OK	
		FAIL	
		UNVALIDATED	EXPEDITION_DATE unavailable DOC_NUMBER unavailable
TEST_VIZ_RG_CHECKSUM	Test of correctness of the document number based on the issuing state	OK	
		FAIL	
		UNVALIDATED	DOC_NUMBER too long: 9 digits or less expected EXPEDITION_DATE unavailable DOC_NUMBER unavailable
TEST_VIZ_PARENTS_ALIGNME		OK	

NT	Checks the alignment of the letter E from the field Filiação (Parents) with the second letter of the field Naturalidade (Birthplace)	FAIL	
		UNVALIDATED	BIRTHPLACE unavailable PARENTS unavailable or incomplete EXPEDITION_DATE unavailable
TEST_VIZ_RG_ALIGNMENT	Checks the alignment of the field firstname and docnumber. Depending on the size of the docnumber (greater than a million) and the	OK	
		FAIL	
	expedition date different character positions are chosen in docnumber and firstname to check the alignment.	UNVALIDATED	NAME incomplete DOC_NUMBER incomplete NAME unavailable or incomplete DOC_NUMBER unavailable
TEST_VIZ_CPF_ALIGNMENT	Checks alignment between fifth number of the content from the CPF field and the first letter of the content from the DocOrig3 field.	OK	
		FAIL	
		UNVALIDATED	DOC_ORIG3 incomplete CPF incomplete CPF unavailable DOC_ORIG3 unavailable
TEST_VIZ_DOC_ORIGEN_FORMAT	This test checks if the field DOC_ORIG3 starts with CN:LV.A or CC:LV.B.	OK	
		FAIL	
		UNVALIDATED	DOC_ORIG3 incomplete
TEST_VIZ_PLASTIC_PATTERN	Test for IDBRAB1. Checks if the template "PROIBIDO PLASTIFICAR" can be found at the obverse side. Also, the expedition date must be newer than 01.12.2005. (Note: Test can only be done if both sides of the document are identified)	OK	
		FAIL	
		UNVALIDATED	MODEL_ID unavailable in side 1 EXPEDITION_DATE unavailable
TEST_VIZ_EXPEDITION_DATE_FORMAT	Checks if expeditions date follows a predetermined format. In case of Sao Paulo the month consists of three letters.	OK	
		FAIL	
		UNVALIDATED	EXPEDITION_DATE unavailable
TEST_VIZ_BIRTHDATE_FORMAT	Checks if birthdate date follows a predetermined format. In case of Sao Paulo the month consists of three letters.	OK	
		FAIL	
		UNVALIDATED	BIRTHDATE unavailable
TEST_VIZ_INSTITUTE		OK	

	Compares institute read at side 1 with some specific institute and validates it with the expedition date.	FAIL	
		UNVALIDATED	SECRETARY_INSTITUTE unavailable EXPEDITION_DATE unavailable
TEST_VIZ_OFFICE_CODE	Compares that the field OfficeCode is the same on both side 1 and side 2.	OK	-
		FAIL	-
		UNVALIDATED	OFFICE_CODE unavailable in side 1 OFFICE_CODE unavailable in side 2 EXPEDITION_DATE unavailable
TEST_VIZ_NATURALIDADE	Checks if field "Naturalidade" has a defined format.	OK	-
		FAIL	-
		UNVALIDATED	BIRTHPLACE unavailable
TEST_VIZ_DATES_ALIGNMENT	Checks vertical alignment of the slashes from the expedition date and birthdate fields. They must have the following format to perform the test: DD/MM/YYYY	OK	-
		FAIL	-
		UNVALIDATED	ExpeditionDate unavailable ExpeditionDate Year Format BirthDate unavailable
TEST_VIZ_ORIG3_ALIGNMENT	Checks if first slash of birthdate is vertical aligned to last slash of field DocOrig3. In case the format of the expedition year is DD/MM/YYYY then also the first slash is used for the check.	OK	-
		FAIL	-
		UNVALIDATED	DOC_ORIG3 unavailable BirthDate unavailable ExpeditionDate unavailable DOC_ORIG3 incomplete
TEST_VIZ_LEFT_ALIGNMENT	Checks if the fields are aligned left-handed.	OK	-
		FAIL	-
		UNVALIDATED	Fields unavailable
TEST_VIZ_CATEGORY_FORMAT	Checks if field DRIVER_LICENSE_CATEGROY contains one of the following types: A, B, C, D, E, AB, AC, AD, AE.	OK	-
		FAIL	-
		UNVALIDATED	DRIVER_LICENSE_CATEGORY unavailable
TEST_VIZ_DATES_FORMAT	Checks date format for given date fields of the document.	OK	Field Name
		FAIL	Field Name
		UNVALIDATED	Field Name

TEST_VIZ_CNH_FORMAT	Validates number of digits of CNH in relation to expedition field.	OK	-
		FAIL	-
		UNVALIDATED	CNH unavailable EXPEDITION_DATE unavailable
TEST_VIZ_SEGURANCA_FORMAT	Checks if "Seguranca" field has a given length of 11 digits.	OK	-
		FAIL	-
		UNVALIDATED	SEGURANCA unavailable
TEST_VIZ_ADDITIONAL_INFO_FORMAT		OK	-
		FAIL	-
	Checks if ADDITIONAL_INFO field has a given length of 11 characters and the first two are a state abbreviation.	UNVALIDATED	ADDITIONAL_INFO unavailable
Test under UV light			
TEST_UV_PATTERNS	Test done under ultraviolet light to detect exclusive patterns in each card.	OK	The card contains the searched patterns.
		DOUBTFUL	The test can't determine if the card contains the searched patterns.
		FAIL	The card hasn't the searched patterns.
TEST_UV_PAPER_REFLECTANCE	Test done under ultraviolet light to detect the presence or absence of optical whitening on the paper.	OK	No whitening presence detected in the card.
		DOUBTFUL	There's no security about the whitening absence.
		FAIL	The card has whitening samples.
TEST_UV_SECURITY_THREAD	Test done under ultraviolet light to detect the presence or absence of a security thread.	OK	The card contains the searched security thread.
		DOUBTFUL	The test can't determine if the security thread is in the card.
		FAIL	The card hasn't the searched security thread.
TEST_UV_PLANCHETTES	Test done under ultraviolet light to detect planchettes in the document.	OK	The card contains planchettes.
		DOUBTFUL	Could not assure there are planchettes in the card.
		FAIL	There are no planchettes in the card.
TEST_IR_INK	Test done under infrared light to detect the remaining ink in concrete zones.	OK	The card maintains the ink in the hoped zones.

		DOUBTFUL	The ink quantity found can't determine its authenticity.
		FAIL	No ink found in required zones.
TEST_UV_TEXT_SHAPE	Test done under ultraviolet light to analyze text shapes.	OK	Text shapes does correspond.
		DOUBTFUL	The correspondence of text shapes is doubtful.
		FAIL	Text shapes does not correspond.
Test under infrared light.			
TEST_IR_INK	Test done under infrared light to detect the remaining ink in concrete zones.	OK	The card maintains the ink in the hoped zones.
		DOUBTFUL	The ink quantity found can't determine its authenticity.
		FAIL	No ink found in required zones.
TEST_IR_FIELDS_VIZ_INK	Test done under infrared light to analyze fields' correspondence between data read under visible light and IR light.	OK	Fields do correspond.
		DOUBTFUL	The correspondence of fields is doubtful.
		FAIL	Fields do not correspond.
Tests related with document sides merging.			
TEST_SIDE_CORRESPONDENCE	Indicates whether the two images corresponding to the two faces of the same document model.	OK	The two images correspond to two sides of the same document model.
		FAIL	The two images do not correspond to two sides of the same document model.
Global document Test.			
TEST_GLOBAL_AUTHENTICITY_RATIO	Numeric value result of the document's global validation based on the results of tests done on the document.	-1	The global test was not performed (i.e. UNVALIDATED) may be because there are no tests in the document to be done or a test could not be performed.
		0-1	Percentage value of the global test performed.
TEST_GLOBAL_AUTHENTICITY_VALUE	Result value for the document's global validation based on the results of tests done on the document.	UNVALIDATED	Unable to perform the global test. By default, equivalent to -1 in the TEST_GLOBAL_AUTHENTICITY_RATIO field.

		OK	Valid document. By default, equivalent to higher values than 0.90 in the TEST_GLOBAL_AUTHENTICITY_RATIO field.
		DOUBTFUL	Unable to ensure it is a valid document. By default, equivalent to values between 0.75 and 0.90 in the TEST_GLOBAL_AUTHENTICITY_RATIO field.
		FAIL	Invalid document. By default, equivalent to lower values than 0.75 in the TEST_GLOBAL_AUTHENTICITY_RATIO field.
Test related with MRZ.			
TEST_MRZ_GLOBAL_INTEGRITY	Integrity check of the global checksum of the MRZ code.	OK	MRZ code is correct.
		FAIL	MRZ code is incorrect.
TEST_MRZ_FIELDS_INTEGRITY	Integrity checks of the checksum fields in the MRZ code.	OK FIELD	MRZ field called FIELD is correct.
		FAIL FIELD	MRZ field called FIELD is incorrect.
		UNVALIDATED FIELD	FIELD value was read but could not be validated.
TEST_CORRESPONDENCE_VISIBLE_MRZ	Data correspondence between MRZ data and non-MRZ data.	OK FIELD	Field called FIELD does correspond.
		DOUBTFUL FIELD	The correspondence of field called FIELD is doubtful.
		FAIL FIELD	Field called FIELD doesn't correspond.
TEST_CORRESPONDENCE_BARCODE_MRZ	Tests the correspondence between MRZ and barcode fields.	OK FIELD	Field called FIELD does correspond.
		DOUBTFUL FIELD	The correspondence of field called FIELD is doubtful.
		FAIL FIELD	Field called FIELD does correspond.
Test related to barcode reading.			
{FIELD}_BARCODE	Bar Code reading result fields. Only if property ICAR_CFG_MRZ_VIZ_OUTPUT is set.	{FIELD}_ corresponds to the field read. Example: DOC_NUMBER_BARCODE	
BARCODE_PDF417	Bar Code PDF147 reading result.	https://en.wikipedia.org/wiki/PDF417	
BARCODE_CODE128	Bar Code Code128 reading result.	https://en.wikipedia.org/wiki/Code_128	
BARCODE_CODE39	Bar Code Code39 reading result.	https://en.wikipedia.org/wiki/Code_39	
BARCODE_CODE25	Bar Code Code25 reading result.	https://en.wikipedia.org/wiki/Code_25	

BARCODE_QRCODE	QR reading result.	https://en.wikipedia.org/wiki/QR_code	
TEST_CORRESPONDENCE_BAR_CODE_MRZ	Data correspondence between MRZ data and barcode data.	OK FIELD	Field called FIELD does correspond.
		DOUBTFUL FIELD	The correspondence of field called FILED is doubtful.
		FAIL FIELD	Field called FIELD doesn't correspond.
TEST_CORRESPONDENCE_BAR_CODE_VISIBLE	Data correspondence between Barcode data and visible data.	OK FIELD	Field called FIELD does correspond.
		DOUBTFUL FIELD	The correspondence of field called FILED is doubtful.
		FAIL FIELD	Field called FIELD doesn't correspond.
Values and test related with the RFID chip reading			
RFID_TYPE	Document type.	PASSPORT	Passport.
RFID_NAME	Name.		
RFID_ID_NUMBER	Personal identification number. This number optionally appears in official.		
RFID_DOC_NUMBER	Document number. Only document number in the expeditor country. This number appears in all official documents.		
RFID_EXPEDITOR	Country key which refers to the document expeditor country.	See COUNTRY KEYS	
RFID_NATIONALITY	Country key which refers to the document bearer nationality.	See COUNTRY KEYS	
RFID_BIRTHDATE	Document bearer birthday.		
RFID_EXPIRY	Document expiration date.		
RFID_SEX	Document bearer gender.	M	Male.
		F	Female.
TEST_RFID_MRZ	Correspondence checking between document's MRZ data and e-passport MRZ data.	OK	Correspondence is correct
		DOUBTFUL	Correspondence is doubtful because of few characters.
		FAIL	Correspondence is not correct.
TEST_RFID_PHOTO	Correspondence checking between document's photograph and e-passport chip's photograph.	OK	Correspondence is correct.
		DOUBTFUL	Correspondence is doubtful.
		FAIL	Correspondence is not correct.

FIELD_CHAR_CONF	OCR characters confidences. FIELD could be any of processed fields (NAME, SURNAME, etc.). The property ICAR_CFG_OBTAIN_OCR_CONFIDENCE must be activated in order to retrieve this information.	For every read character this information is retrieved: "Character Confidence". Rank for confidences are [0-100] where 0 indicates the lowest and 100 indicates the higher confidence.	In case of whitespaces the string WHITESPACE will be retrieved as character. In case of noise, the string REJECTED will be retrieved.
FIELD_FIELD_CONF	OCR global field confidence. FIELD could be any of processed fields (NAME, SURNAME, etc.). The property ICAR_CFG_OBTAIN_OCR_CONFIDENCE must be activated in order to retrieve this information.	Numeric value between 0 a 100. Rank for confidences are [0-100] where 0 indicates the lowest and 100 indicates the higher confidence.	
{FIELD}_VIZ	Visible (VIZ) zone reading result. Only if property ICAR_CFG_MRZ_VIZ_OUTPUT is set.	{FIELD}_ corresponds to the field read	
{FIELD}_MRZ	MRZ zone reading result. Only if property ICAR_CFG_MRZ_VIZ_OUTPUT is set.	{FIELD}_ corresponds to the field read	
Test related to the smartcard chip reading (SC).			
TEST_SC_CERTIFICATE	Check for certificate authenticity by means of SC chip.	OK	Correct certificate
		DOUBTFUL	Doubtful certificate.
		FAIL	Incorrect certificate.

Special Fields

Field	Description	Value	Value description
Test related to Face Recognition			
TEST_FACE_RECOGNITION_VALUE	Compares the picture on the document with the user selfie.	OK	Selfie image matches with the document picture.
		FAIL	Selfie image does not match with the document picture.
		DOUBTFUL	It is not sure if the selfie image matches with the picture or not.
		UNVALIDATED	Comparison could not be performed.
TEST_FACE_RECOGNITION_RATIO	Correspondence between the Selfie and the document image in terms of a numeric value.	A value between 0 and 1, where 1 is a perfect match. Negative values correspond to UNVALIDATED.	
Test related to e-mail and phone number validation			
TEST_MAIL_CHECKER	Performs a check to verify the existence of the email address sent to the server.	OK	Mail is correct.
		FAIL	Mail is invalid.
		UNVALIDATED	An error has occurred during the process.

TEST_PHONE_CHECKER	Performs a check to verify the existence of the telephone number sent to the server.	OK	Mail is correct.
		FAIL	Mail is invalid.
		UNVALIDATED	An error has occurred during the process.
Fields related to Geolocation, device IP and device fingerprint.			
GEOLOCATION_ADDRESS_LAT	The latitude coordinate sent to the server.	Coordinate	
GEOLOCATION_ADDRESS_LNG	The longitude coordinate sent to the server.	Coordinate	
GEOLOCATION_ADDRESS_VIE WPORT_NE_LAT	The northeast viewport latitude coordinates from the read document address.	Coordinate	
GEOLOCATION_ADDRESS_VIE WPORT_NE_LNG	The northeast viewport longitude coordinates from the read document address.	Coordinate	
GEOLOCATION_ADDRESS_VIE WPORT_SW_LAT	The southeast viewport latitude coordinates from the read document address.	Coordinate	
GEOLOCATION_ADDRESS_VIE WPORT_SW_LNG	The southeast viewport longitudes coordinate from the read document address.	Coordinate	
DEVICE_IP	A valid IP of the device sent to the server.	"XXX.XXX.XXX.XXX" format string.	
DEVICE_BROWSER_FINGERPRINT	String containing the device fingerprint sent to the server.	String.	

How to interpret the results of Validation

The main field to consider is `test_global_authenticity_value` field. It is a value calculated based on the set of validation tests. This calculation is a weighting of test values and is based on the importance and reliability of each of them based on experience. It allows customers to have a general idea about the authenticity of the document and it may have the following values:

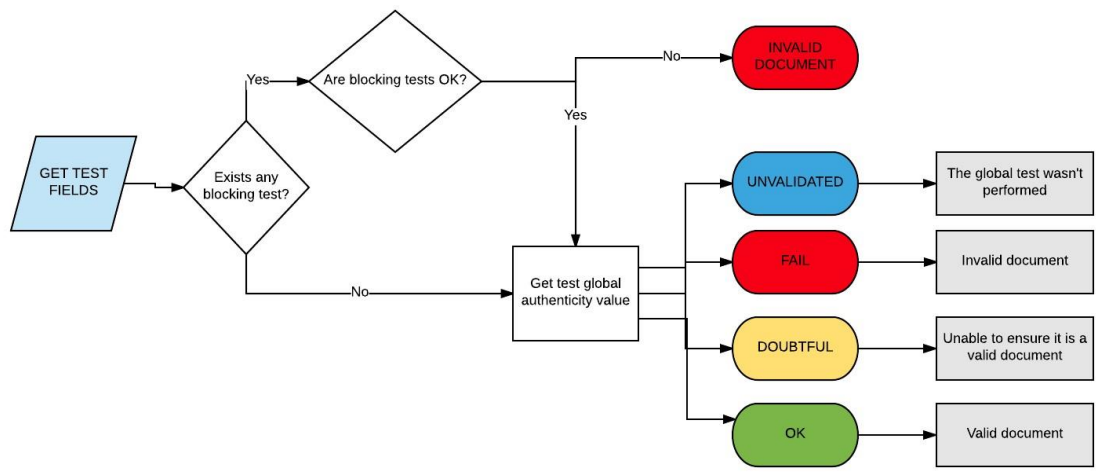
- OK → Valid document.
- DOUBTFUL → Unable to ensure it is a valid document.
- FAIL → Document is not valid.
- UNVALIDATED → The global test wasn't performed.

Some customers may consider some of the test returned by the system as blocking tests. That is, if the test fails that result it is enough to stop the process. These tests depend on every customer and their business rules. For example, someone can consider that an expired document is not valid while for others it is not relevant.

Some examples of the most common blocking tests are:

- `TEST_EXPIRY_DATE`: Checks if the document is expired comparing the system date with the expiry date of the document.
- `TEST_COLOR_IMAGE`: Checks if the image is a color image or not. It can filter white and black document photocopies.
- `TEST_MRZ_GLOBAL_INTEGRITY`: Checks the integrity check of the global checksum of the MRZ code.
- `TEST_MRZ_FIELDS_INTEGRITY`: Checks the integrity checks of the checksum fields in the MRZ code.

The diagram below illustrates this idea:



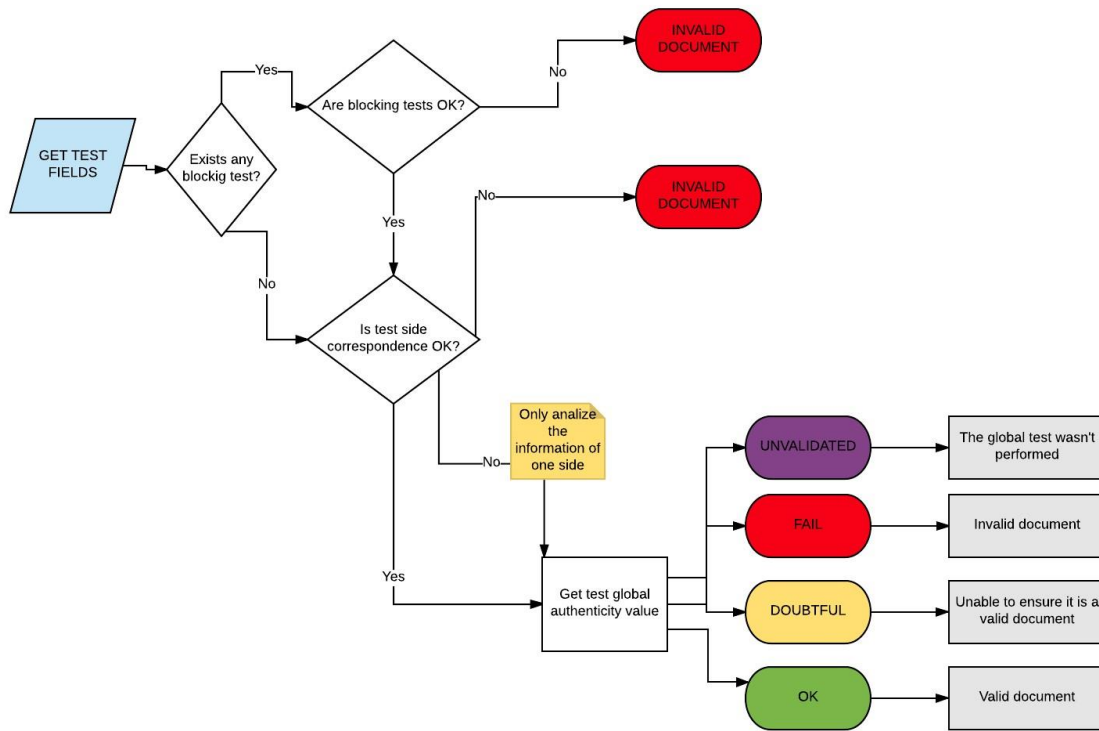
Once you have determined the authenticity of the document, you may go into greater detail on the results obtained if document has not to be considered valid. Apart from that, in two-sided documents there is something more to be considered: if the service has been able to identify both sides and consequently integrate it. For that purpose, the service returns test_side_correspondence field that indicates whether the two images correspond to the two sides of the same document model.

In case this test is fail, service returns data about the side returned and customers can take two decisions:

- The document is not valid because two images don't correspond to the same document.
- Analyze the information about the side returned (the service returns side field).

The general field test_global_authenticity_value will be calculated according to the sides that have been processed.

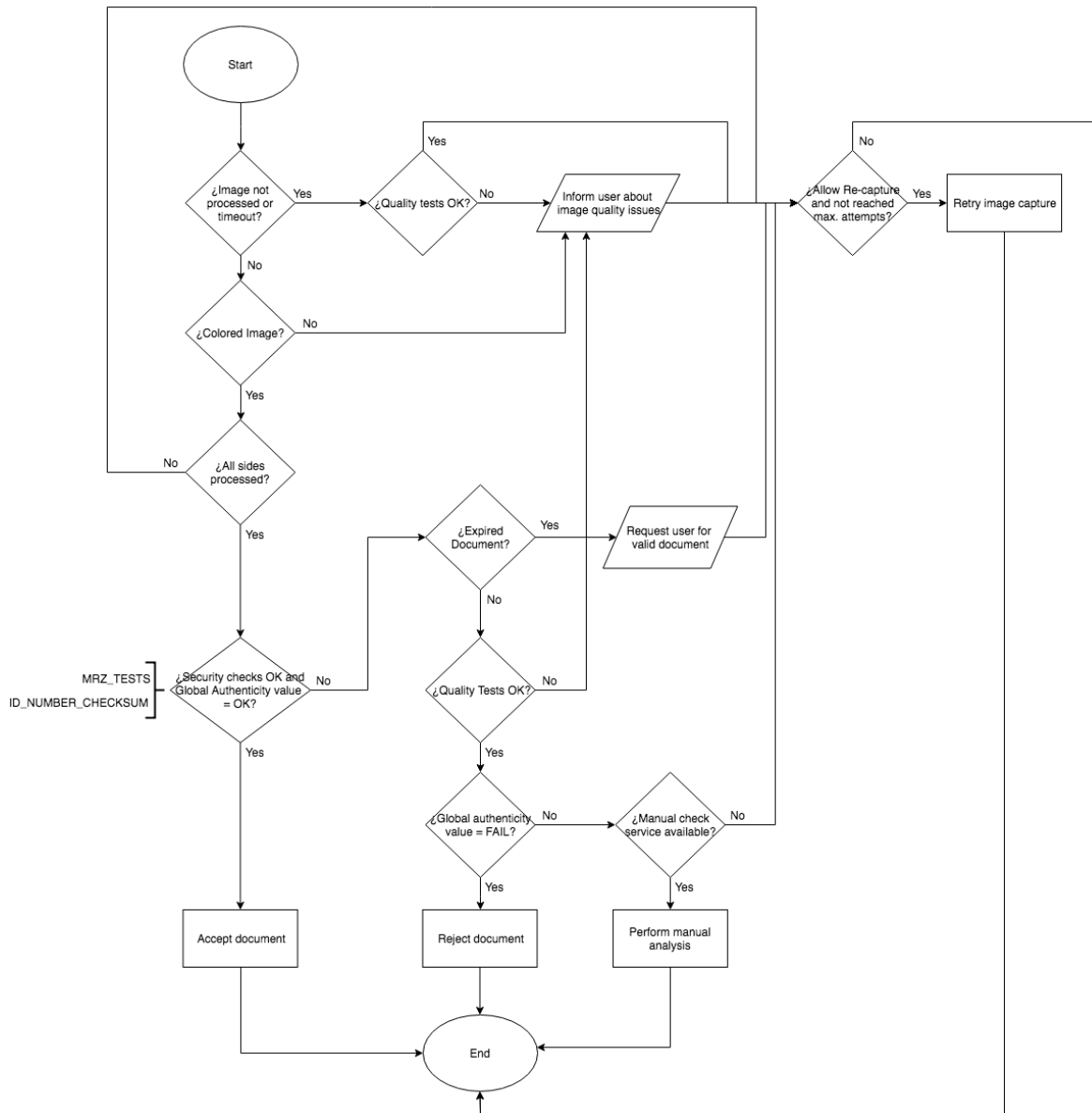
The diagram below illustrates this idea:



Suggestion of how Interpreting result fields

The following is a suggestion on how to interpret the service responses. This process can be modified to be more, or less strict. It is recommended to implement this algorithm and analyze results before adding or removing business rules.

Basic response interpretation diagram



Considerations

Casualty sending two sides of a document

If two sides of the same document are sent, if one of the two sides could not be identified, the service returns all the information it can.

If one of the two sides sent to the service has not been identified or the two sides are not corresponding faces of a document, service returns a *Warning* in variable *Result* and the test TEST_SIDE_CORRESPONDENCE would indicate FAIL. Two sides are corresponding if they match to the same model and type of document. This test does not validate that they are from the same carrier. This will be verified in comparison tests MRZ / VIZ. This test appears only if two images have been sent to the service.

If you want to know which one of the two sides could not be identified, you can use the field SIDE. In this field there is:

- 0 if the information comes from the two images (front and back of the same standard document).
- 1 or 2 as you were able to retrieve information from a front or a back respectively.

How many faces have the document can be found in SIDES_NUMBER field.

If you want to know if the two sides of a document have been sent and validated by the service, you will have to verify that SIDE_NUMBER == 2 and SIDE == 0.

Country Keys

Consult the document ***country_codes_EN.pdf***.

Contact information

For any additional information please contact:

Link Support Team

✉ soporte.es@linkmobility.com

📞 +34 912 160 100