

## Why an integration review?

The below list comes from the experience of VERIDAS helping customers with multiple and diverse integration processes; it summarizes general recommendations/improvements, mandatory checks and several weak points an integration may have, so we strongly suggest paying special attention to them before moving forward as not doing so might cause issues in production.

Please note that this might not cover every aspect in your integration, it's continuously reviewed with each new integration process and the feedback our customers provide. Please, send this document filled back to VERIDAS to help in a joint review meeting. Also, feel free to let us know your experience with this checklist.

VERIDAS cannot deliver the production credentials to our customers without the approval of this checklist.

VERIDAS will not, at any event, be responsible for the interpretation of the results arising from the pentest performed by the CLIENT; the CLIENT retains the final decision on the evaluation of the risks evidenced in order to decide if they can be assumed. However, and taking into consideration the risks evidenced by an eventual vulnerability, VERIDAS may demand its correction within a maximum period and, if it is not corrected, it may imply the suspension of the services for security reasons.

In any case, VERIDAS discourages the entrance into production of systems which do not guarantee the information security and the protection of personal data.

Context	
Date of review	dd month yyyy
Customer	Name of the company
Integrator(s)	Name of the company integrating the solution (if any)
End customer	Name of the company (if any)
Use case	<i>i.e.</i> customer onboarding for bank account creation...
Applicable regulations	<i>i.e.</i> SEFBLAC...
Corresponding validation process	<i>i.e.</i> Document, Document + Selfie, Document + SAP, Document + S + Video...
SDK version	<i>i.e.</i> HTML Document v3.4.8...
End user platform	<i>i.e.</i> React, webviews...
Supported documents	<i>i.e.</i> Spanish IDs, passports...
Backoffice	Yes/No
Using boldos	Yes/No
What for	<i>i.e.</i> backoffice review, veridas support (GoLive), other
Version	<i>i.e.</i> version 15.7

Participants	
Veridas	CS representative name
	Sales representative name

Customer	Name, company
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## Summary

To be filled by Veridas

M	Mandatory
R	Recommended

## Example evidences

screenshot, video recording, cloud/product logs, email from customer or just a comment

Category	#	Subject	Platform	Check	R/M	Answer	Reason	Internal arguments for the summary
Customer application	1	Flow configuration	ALL	The validation process is the expected one described in the "Corresponding validation process" in "Context" section of this review document.	M	YES/NO		If the validation process implemented does not match the expected validation process described in the context section of this same document Veridas cannot assure that the results obtained will be the expected ones. Additionally, in remote processes, a proof of life must be included to avoid impersonations using presentation attacks and what we call duplicate attacks (using the same image of the document for the selfie), the most common cases.
Customer application	2	Happy path 1: User contact details	ALL	Before starting the process, the end user contact details (email and/or phone number) are collected and validated.	R	YES/NO		
Customer application	3	Happy path 1: User contact details application	ALL	Before starting the process, an end user anonymous id is generated.	R	YES/NO		
Customer application	4	Happy path 1: Information about collection and analysis of data (regulation)	ALL	Before starting the process, the end user is informed and, if applicable, their consent is collected in compliance with data protection regulation and according to the agreement subscribed with Veridas.	R	YES/NO		As part of the process, the captures taken from the user must be sent to Veridas cloud to be analyzed. Our customers should persist this information, that might contain sensitive data, in their own servers for troubleshooting purposes, for their own records or to comply with the corresponding regulation. Therefore, this should be informed to the user in order to collect their acceptance in a way that's compliant with the corresponding regulation in terms of data protection and according to the contract agreement with Veridas.
Customer application	5	Happy path 1: Instructions before starting the process	ALL	Before starting the process, the end user is informed with a description of the process, the purpose of it and its requirements according to Veridas integration guide.	R	YES/NO		This point is important in order to inform the user about the process, letting them know all the steps included, the accepted documents, etc. We have seen cases when the users abandon the process because they don't know we are going to take a selfie of them or they don't have the documents with them. The more information to the user, the better. This will cause the number of abandoned processes to drop.
Customer application	6	Happy path 1: Browsers compatibility	HTML	Before starting the process, there is a check that the browser used is supported by Veridas SDKs/Xpress ID. If it's not supported, the user is advised to use a compatible one (providing a <a href="#">list of them</a> ).	R	YES/NO		
Customer application	7	Happy path 1: Security measures	ALL	Measures to avoid automated attacks exists (captchas, tokenized URLs, authenticated session, contact validation (point 2))	R	YES/NO		
Customer application	8	Security measures	ALL	There is an authentication between the front side application and the middleware (recommended not to be a fix secret).	R	YES/NO		
Customer application	9	Security measures	ALL	The credentials to connect with VeriSaaS are stored in the back (middleware), not in the front side application.	R	YES/NO		
Customer application	10	Security measures	ALL	There are measures to prevent approved end users from retrying the process.	R	YES/NO		
Customer application	11	Happy path 3: Document selector (only if needed by use-cases)	ALL	Before starting the process, a document selector is included to let the user select the type and the issuing country of the document.	M*	YES/NO		It is important to let the user select which document they are going to scan. We recommend improving the selector and showing an example image of the document the user is going to scan so that they know the specific document they need. We have seen cases when the users abandon the process because they don't have the documents with them. The more information to the user, the better. This will cause the number of abandoned processes to drop.
Customer application	12	Happy path 4: Mobile redirection	HTML	When user is in web-desktop, the user is given the option to redirect the process to web-mobile (i.e. QR) and/or native apps and continue the process in the same step and keeping the session authenticated if applicable.	R	YES/NO		We strongly recommend redirecting the users to mobile due to mobile devices having better resolution and cameras. The more quality picture, the better. Making the process via desktop sometimes leads to bad quality pictures, making a wrong OCR extraction and this causes the funnel to drop. In order to improve the funnel and conversion, we suggest redirecting to mobile as much as possible. Additionally, the "scoresConfiguration" mentioned in point 9 of section "Back & API" won't apply when the process is done via web desktop, they will only apply when the user uses a mobile device.
Customer application	13	Happy path 4: Desktop allowance	HTML	Capture process is not allowed in web-desktop.	R	YES/NO		
Customer application	14	Happy path 4: Camera permissions	ALL	The camera permissions are not requested by the application prior to the launch of our SDKs. This task of requesting the permissions to the users is being delegated to the SDKs.	R	YES/NO		
Customer application	15	Happy path 5: Manual Document capture	ALL	The user is given a manual capture option with the default configuration included in VERIDAS component.	M	YES/NO		
Customer application	16	Happy path 5: Preview page	ALL	The user is given a preview page to review the image captured in order to repeat or continue before moving forward.	M	YES/NO		
Customer application	17	Other alternative paths, a): Non happy path processes	ALL	If the process is explicitly cancelled by the end user, the validation process is properly cancelled and deleted by the middleware.	R	YES/NO		
Customer application	18	Other alternative paths, b): Non happy path processes	ALL	If the process is not explicitly cancelled by the end user (time out, abandon...), a house cleaning process is in place to cancel and delete these validation process (before Veridas cleaner process).	R	YES/NO		
Customer application	19	Other alternative paths, c): Non happy path processes	ALL	If the user abandons the journey in a step after the validation process, there is a rescue process in place which offers the user to resume it from the point where it was left instead of starting over and repeating the validation process.	R	YES/NO		
Customer application	20	Alternative Path 9, 12,19,22: Non happy path processes	ALL	When doing a PUT or POST call, if VeriSaaS returns an 4xx error, the process does not continue with further steps and the user is being asked to retry the capture that threw the error.	M	YES/NO		
Customer application	21	Alternative path 13,23: Non happy path processes	ALL	If the validation process gives low scores, the user is invited to retry the validation process.	R	YES/NO		
Customer application	22	Alternative path 9,12,13,19,22,23: Non happy path processes	ALL	There is a limited number of capture attempts in case of error or validation attempts in case of low scores. (linked with points 2 and 3 of "Customer application" category)	M	YES/NO		It is important to let the user retry a few but limited times (at least 2 or 3, depending on the error they are having).

Customer application	23	Happy path 13: Intermediate checks	ALL	In validation processes with document and biometry, there is an intermediate check before starting the biometry capture to validate the document. If the document score is low and it's not fraud, the user is invited to retry the document capture.	R	YES/NO	
Customer application	24	Alternative path 0: Non happy path processes	ALL	If Veridas returns an 5xx error, the middleware is retrying again after a few seconds.	R	YES/NO	
Customer application	25	Session Control	ALL	<b>[ONLY FOR QTSP CUSTOMERS]</b> Customer is controlling the user session to make sure the IDV is taken place in a single device, in a single take and in a single tab to be compliant with QTSP regulations	M	YES/NO	
SDKs	1	Happy path 1: Latest versions of SDKs.	ALL	In order to have the best user experience, best capture process and latest security fixes, the latest versions of the SDKs are being used (check our SDK <a href="#">documentation</a> ).	R	YES/NO	Our latest SDKs bring new improvements and functionalities. It's important to keep the SDK updated after each release to get them. The latest SDK brings improvements in this process and will make the funnel improve because the users will complete the process successfully. Not updating the SDK will bring worse results to the SAP process for the users, making them retry or even abandon it.
SDKs	2	Alternative path 23: Modification of SDK images.	ALL	When using the SDKs, the <code>validasScoreIntegrity</code> is always validated.	M	YES/NO	
SDKs	3	Happy Path 5: Document SDK auto-classification	ALL	SDKs auto-classification feature is used if available for the document to be captured (check our SDK <a href="#">documentation</a> ).	R	YES/NO	Our latest SDKs include this functionality in which the SDK itself is able to auto-classify the document. Using this feature will make the call to the cloud easier since the "documentType" will be the value that the SDK returns, making the processing time in the cloud decrease.
SDKs	4	Happy Path 5: Full screen	ALL	Veridas SDKs capture screen takes 100% of the size where it has been embedded. In web, we recommend opening it from a new screen and then returning to main page. For your information, you can have a look at our web demo for reference.	R	YES/NO	This recommendation is due to the images having the best quality. If we set the SDK to full screen, the user will need to place the document closer to the laptop/device, so the quality and the size of the document will be bigger. With SAP, having the SDK full screen will make the user get closer to the screen, having better capture. Not activating SDKs in full screen, could cause the funnel to drop because the quality of the images won't be ideal.
SDKs	5	Happy Path 16: Selfie Alive Pro	ALL	Every time a user has to repeat the Selfie Alive Process process, a new challenge is requested to our API and used in the SDK.	R	YES/NO	Selfie Alive Pro asks for a random set of movements for the user. When something goes wrong during the process and the user is asked to retry, our recommendation is to get a brand new token from the API, so that the movements will be different. This is a security recommendation.
SDKs	6	Non happy Path: Selfie Alive Pro	ALL	There is a limited number of attempts to complete Selfie Alive Pro challenge in the customer application/web (front)	R	YES/NO	
SDKs	7	Happy Path 20: Document autodetection in video (only for Video SDKs)	ALL	For Mexican and Spanish ID documents, the specific document value is passed to the video SDK to be auto-detected.	R	YES/NO	
SDKs	8	SDK events logging	ALL	SDK events are being listened in order to let the user retry the process if an error occurs. SDK events are available in the Tech documentation of our Product Hub (e: <a href="#">SDK Document WC</a> ). Veridas recommends adding a front-end event listener associated with the validation_id of each process to track what has happened throughout the entire process and the reason for any errors in each process (e.g., <code>addErrorListener("wydown", (event) =&gt; console.log(event.code))</code> )	M	YES/NO	
SDKs	9	Look & Feel	ALL	A personalised look/feel (text&colors) has been designed in Veridas SDKs in order to adapt to the look/feel of the customer. As an alternative, our Veridas Recommended configuration has been used.	M	YES/NO	
Back & API	1	Happy Path 6: Right initiation of validation	ALL	The validation (POST validation) is started once the obverse of the user has been captured and not before.	R	YES/NO	
Back & API	2	Right orchestration order of a validation	ALL	The right order in the validation (tailored to the use case) is being followed	M	YES/NO	
Back & API	3	Happy Path 9: Optimizing user waiting times during the validation process	ALL	The document obverse should be sent to the API while the user is capturing the reverse.	R	YES/NO	
Back & API	4	Sequential PUTs	ALL	PUTs and POSTs belonging to the same validation process need to be sent sequentially to the API, they cannot be overlapped.	M	YES/NO	In order to reduce waiting times to the user and make the user experience better, it's recommended to send the obverse image when the SDK handles it and while the user is taking the picture of the reverse. Our recommendation is to send the PUT calls in sequential order. Especially the document part of the process. According to our experience with other clients, sending both images in parallel at the same time could cause the funnel to drop.
Back & API	5	Happy Path 8: Use of PUT contextual data	ALL	<code>PUT_contextual_data</code> API call is being used to send relevant additional information required for billing, statistical or troubleshooting purposes: <code>stats_userid</code> , <code>stats_usecase</code> , <code>stats_tenant</code> , <code>stats_processid</code> , <code>stats_flow</code> , <code>stats_externalcheck</code> , <code>stats_faceregistration</code> , <code>stats_voiceregistration</code> .	R	YES/NO	
Back & API	6	Happy Path 9: PUT document Document type	ALL	Document type in <code>PUT_document</code> (obverse) is being sent not empty and corresponds to the document captured.	M	YES/NO	
Back & API	7	Happy Path 9: PUT document Analysis type	ALL	Analysis type in <code>PUT_document</code> is being sent not empty and corresponds to the document side captured (Obverse or Reverse).	M	YES/NO	
Back & API	8	Happy Path 9: PUT document Service mode	ALL	Service Mode in <code>PUT_document</code> is not sent empty and corresponds to one of the following: OCR or validation	R	YES/NO	
Back & API	9	Happy Path 9: PUT document scores/Configuration	ALL	If the use case requires a non standard behaviour of the validation process or Veridas has recommended a specific configuration, this is being applied in inside the <code>scoresConfiguration</code> parameter in the <code>PUT_document</code> (obverse) query.	M	YES/NO	
Back & API	10	Duplicated API calls	ALL	No duplicate or unnecessary calls are being requested to Veridas API	R	YES/NO	
Back & API	11	Happy Path 7,26, 27: User's images storing	ALL	The captures taken by the SDKs and the validation ID are stored in customer servers (including those that throw a 4xx error).	R	YES/NO	Veridas doesn't persist any information in the cloud, so it's recommended that the customer saves the captures. This is important for several reasons: legal customer's future use cases (i.e. biometric authentication of the user) and troubleshooting purposes (our system is deterministic, given the same source images we can reproduce the same results). Also, we recommend saving the validation ID for further troubleshooting and identification processes. By not doing this, Veridas won't be able to provide the best support. By not doing this, Veridas won't be able to provide the best support. It might also be required according to corresponding regulation.
Back & API	12	Happy Path 26, 27: Time out error. (Error 499)	ALL	The timeout setup is higher than the 60 secs timeout of Veridas API.	R	YES/NO	Veridas has a timeout of 60 secs. Please consider this time for your setup. In case you have a timeout shorter than our process, your canceled request will get a 499 response.
Back & API	13	Happy Path 26: Validation Confirmation or Cancellation	ALL	A validation process is ended being confirmed or cancelled.	R	YES/NO	
Back & API	14	Happy Path 27: bol-das installation	ALL	If bol-das is opened to internet, the access is secured by a VPN and other means such as IP allowed lists.	M	YES/NO	It's important to confirm all completed validations after the user finishes the process. If the validation doesn't meet your requirements (low scores, bad quality, etc) our recommendation is to cancel&delete the validation.
Back & API	15	Happy Path 27: bol-das installation	ALL	The Multi Factor Authentication feature of bol-Das is being used.	R	YES/NO	
Back & API	16	Happy Path 27: bol-das installation	ALL	If bol-das takes part within the critical path of the validation, high availability is deployed	R	YES/NO	
Back & API	17	Happy Path 27: bol-das installation	ALL	A data backup process exists for data stored in bol-Das	R	YES/NO	
Back & API	18	Happy Path 27: bol-das installation	ALL	There is a Product monitoring and control implemented by the customer in order to detect potential issues with boldas (Service unavailability) Recommendations can be found in our <a href="#">documentation</a> .	R	YES/NO	
Back & API	19	Cloud auto cleaning script	ALL	Veridas Cloud auto cleaning script is executed every 30 minutes by default. However, if boldas polling fails, it may imply the Deletion of confirmed validations. In order to prevent this Deletion, if boldas polling fails, Customer requests that all confirmed validations that have not been downloaded can be kept in Veridas cloud services for a maximum period of 7 days. (If this checklist is not sent back to Veridas or "No" is answered, Veridas will not implement this change in the default auto cleaning execution period)	R	YES/NO	
Back & API	20	IPs allowance	ALL	Customer has provided the list of IPs that need to be enabled in the Production environment (if so, add them in this section)	R	YES/NO	
Business	1	Happy Path 28: Business rules to accept, reject or review validations	ALL	Describe which are the business rules you have set in order to accept a validation (list scores, <a href="#">thresholds</a> , and other checks with third parties)	R		
Business	2	Happy Path 28: Business rules to accept, reject or review validations	ALL	Describe which are the business rules you have set in order to reject a validation (list scores, <a href="#">thresholds</a> , and other checks with third parties) and at which step.	R		
Business	3	Happy Path 28: Business rules to accept, reject or review validations	ALL	If applicable, describe which are the business rules you have set in order to manual review a validation (list scores, <a href="#">thresholds</a> , and other checks with third parties) and at which step.	R		

**Comments**  
To be filled by Customer