Alibaba Cloud
ID Verification

ID Verification

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Generic conventions

Table -1: Style conventions

Style	Description	Example
⛔	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	⛔ Danger: Resetting will result in the loss of user configuration data.
⚠️	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	⚠️ Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
📋	This indicates warning information, supplementary instructions, and other content that the user must understand.	ⓘ Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	📋 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
`Courier font`	It is used for commands.	Run the `cd  / d  C :/ windows` command to enter the Windows system folder.
Italics	It is used for parameters and variables.	`bae  log  list  -- instanceid` *`Instance_ID`*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *`[-all|-t]`*

Style	Description	Example
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *{stand | slave}*

Contents

1 What is ID Verification

ID Verification is a biometrics and OCR-based verification service that verifies the identity of a natural person through facial recognition and face anti-spoofing. These technologies help you verify that an operation is performed by the specified user in person.

ID Verification offers technical support for compliance requirements, risk management, and anti-fraud scenarios. It has been widely used in the e-commerce, finance, logistics, hospitality, and digital entertainment industries.

2 Benefits

ID Verification has been tested in a large number of business scenarios. It offers guaranteed authenticity, accuracy, security, and stability.

ID Verification offers the following benefits:

- High adaptation capability: Recognizes people of different races and countries, such as Indians and Malaysians. Supports multiple types of identity documents.
- High accuracy: It is tailored for the finance sector with an inaccuracy lower than 0.001%.
- High security: Based on the face liveness detection technology, it intercepts attacks that use photos, videos, 3D simulation, and masks.
- High stability: Based on the Alibaba Cloud HA and dynamic scaling service framework, it allows you to flexibly call services. A scale-out event that is supported by your hardware specification can be completed within five minutes.
- High efficiency: It is the first face liveness detection technology in the world that does not require users to make any movement or register an account for data collection. Verification can be completed within seconds.
- High reliability: Tested in a large number of business scenarios, it is a reliable technology that has protected over two billion transactions.

3 Features

ID Verification supports face anti-spoofing, OCR, real-name verification, and facial recognition.

Face anti-spoofing

This feature requires the user to take a live video or photo to prove that the operation is performed by the user in person. This protects you against attacks that use your photos, videos, and 3D-simulated masks.

When you take a live video, make movements according to the instructions, for example, stare at the camera, open your mouth, shake your head, and blink your eyes. The system then automatically collects your facial information from the video and checks whether you have made movements as required and determines whether it is an attack.

OCR

This feature requires you to submit a scanned copy of the front and back sides of your identity document. The system then uses the OCR technology to automatically recognize and read the information, including your name, document number, and validity date. The collected information is displayed for you to confirm. The accuracy of this technology is over 99%. With this feature, you don't need to manually enter information, which improves user experience.

Real-name verification

This feature verifies the authenticity of your name and ID card number, and checks whether the name and the ID card number match. This prevents identity fraud.

> Note:
> This feature is intended for countries and regions that have an authenticated resident information database, for example, Mainland China.

Facial recognition

This feature uses the cutting-edge facial recognition technology to compare the photo taken on site with the one on the identity document. If an authenticated database provides a profile photo, ID Verification can also compare the photo with the profile photo to verify the identity of the person.

4 Scenarios

ID Verification is widely applied in scenarios where identity verification is required, such as the e-commerce, finance, logistics, hospitality, and digital entertainment industries.

Scenario 1: Online ID verification to prevent identity theft and account fraud

When a finance application detects risks on the account that is being used, ID Verification can be used to verify that the operation is performed by the account owner in person. ID Verification ensures the security of the user's assets and account information.

Scenario 2: ID verification through facial recognition in the tertiary industry

An O2O service platform requires its service providers to complete ID verification and double-verifies their identities through facial recognition when they take an order. ID Verification helps the platform guarantee its service quality and improve its management capability.

Scenario 3: Facial recognition during hotel check-in to verify guest identities

When guests check-in at the front desk in a hotel, ID Verification helps the hotel compare the photo taken on site with the photo on the ID document to verify the identities of the guests.