e-Invoicing Sandbox Release (2.1.0)

ZATCA wants to provide Taxpayers and Developers of Taxpayer e-invoicing solutions and devices the opportunity to test the integration of the systems with a ZATCA Sandbox environment prior to the launch of the production system. The Integration Sandbox (ISB) should enable solution developers to simulate the integration calls/requests that will be required later as part of the registration process and the submission of e-invoices, credit and debit notes to the production system. The Sandbox backend will accordingly simulate the validations and responses as part of the Cryptographic Stamp Identifiers issuance, renewal and revocation as well as the Reporting and Clearance function.

Although the ISB will give ZATCA an indication of the adoption rate for e-invoicing solutions in the market, it will not be mandatory to complete Sandbox testing as a pre-requisite for Registration/Taxpayer onboarding or accessing the production system. Similar to the Compliance and Enablement Toolbox (CET), the ISB is also aimed at Developers to build/update their solutions which are in line with ZATCA specifications and standards and are able to integrate with a ZATCA backend. Accordingly access to the ISB test/mock APIs will not be limited to Taxpayers and any user can register for a Developer account to access the ISB test/mock APIs and associated documentation. This registration will enable ZATCA to monitor the solution providers who intent to develop/update their solutions to integrate with ZATCA.

It should be noted that although the ISB will simulate most of the core functionalities of the production system, any validations that require integrations/access with external systems and/or storage as well as scenarios involving any backend exceptional handling (for example overriding the clearance process) will not be part of the ISB and will be covered by the core solution. Accordingly the ISB should not be considered as representative of all integrations and/or APIs that will be part of the production system.

Kindly note that validations which can result in an UBL XSD error also apply to optional fields if the tag is present and data input is not compliant. This includes leaving such fields blank. However if the tag itself is absent than the validations will not be performed.

This swagger documents the set of apis for the Sandbox (ISB) solution.

Developers can also refer to section 2.3.10 of the Developer Portal User Manual for additional guidance and steps.

More information: https://helloreverb.com
Contact Info: hello@helloreverb.com
Version: 1.0.0
BasePath:/e-invoicing/developer-portal

http://apache.org/licenses/LICENSE-2.0.html

Access

1. HTTP Basic Authentication

Methods

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ReportingModelEndpointS

POST /invoices/reporting/single

Up

Reports a single invoice. (**reportSingleInvoice**)

Reports a single SIMPLIFIED invoice, credit note, or debit note. Specifically, it accepts simplified invoice, credit note, or debit note encoded in base64 and validates it to ensure:

1. Compliance to the UBL2 XSD.
2. EN 16931 Rules set.
3. KSA Specific Rules set.

   KSA Rules set will override EN 16931 Rules set in case the same rule exists in both sets.

4. QR Code validation
5. Cryptographical Stamp validation

6. Previous Invoice Hash Validation (PIH)

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body InvoiceRequest (required)
Body Parameter —
*example: { "summary" : "Simplified Invoice", "value" : { "invoiceHash" : "Hss2gNFjBY5OJn/5CEVZSSNUM
rSf4QlCMxwsioPN6fA=", "uuid" : "8e6000cf-1a98-4174-b3e7-b5d5954bc10d", "invoice" : "PD94bWwgdm
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Request headers

Return type

[InvoiceResultModel](#)

Example data

Content-Type: application/json

{ "invoiceHash" : "invoiceHash", "warnings" : [{ "code" : "code", "category" : "category", "message" : "message" }, { "code" : "code", "category" : "category", "message" : "message" }], "erros" : [{ "code" : "code", "category" : "category", "message" : "message" }, { "code" : "code", "category" : "category", "message" : "message" }], "status" : "Reported" }

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses
200
HTTP OK. Returned on successful validation of simplified invoice. InvoiceResultModel
Example data
Content-Type: reported

{"invoiceHash":"4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=","status":"REPORTED","warnings":null,"errors":[]}

202
HTTP Accepted. Returned when the invoice is reported with warnings InvoiceResultModel
Example data
Content-Type: reported

{"invoiceHash":null,"status":"REPORTED","warnings":[{"category":"Seller-Address","code":"BR-KSA-09","message":"Seller address must contain additional number (KSA-23), street name (BT-35), building number (KSA-17), postal code (BT-38), city (BT-37), Neighborhood (KSA-3), country code (BT-40). \n For more information please access this link: https://www.address.gov.sa/en/address-format/overview"}],"errors":null}

400
HTTP Bad Request. Returned when the submitted request is invalid. InvoiceResultModel
Example data
Content-Type: KSA Rules Violation

{"invoiceHash":"cr9A4xMx6/JrPvLNBG8t7eIoMU/jZXwVa3vdqYNSjNc=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"EN_KSA_ERRORS","code":"BR-KSA-EN16931-09","message":"Only one tax total (BG-22) without tax subtotals must be provided when tax currency code is provided."},{"category":"EN_KSA_ERRORS","code":"BR-KSA-04","message":"The document issue date (BT-2) must be less or equal to the current date."}]}

Example data
Content-Type: Missing QR Code

{"invoiceHash":"cr9A4xMx6/JrPvLNBG8t7eIoMU/jZXwVa3vdqYNSjNc=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"QR_CODE_ERROR","code":"Missing-QR-Code","message":"Please include a digital signature in the invoice"}]}

Example data
Content-Type: Invalid QR Code

{"invoiceHash":"cr9A4xMx6/JrPvLNBG8t7eIoMU/jZXwVa3vdqYNSjNc=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"QR_CODE_ERROR","code":"Seller-Name","message":"seller name does not match with qr code seller name"}]}

Example data
Content-Type: Invalid Authentication Certificate

{"invoiceHash":"4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"Authentication-Errors","code":"Invalid-Authentication-Certificate","message":"Please include a valid certificate in the header"}]}

Example data
Content-Type: EN Rules Violation

{"invoiceHash":"cr9A4xMx6/JrPvLNBG8t7eIoMU/jZXwVa3vdqYNSjNc=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"EN_KSA_ERRORS","code":"BR-CL-03","message":"currencyID MUST be coded using ISO code list 4217 alpha-3"},{"category":"EN_KSA_ERRORS","code":"BR-CO-15","message":"Invoice total amount with VAT (BT-112) = Invoice total amount without VAT (BT-109) + Invoice total VAT amount (BT-110)."}]}

Example data
Content-Type: XML Schema Error

{"invoiceHash":"cvlxsVtjNPk7e6Jr9TFi5U0rjXc1Ubva6PJWZv/KC9s=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"XSD_SCHEMA_ERROR","code":"SAXParseException","message":"Schema validation failed; XML does not comply with UBL 2.1 standards in line with ZATCA specifications"}]}

Example data
Content-Type: Missing Authentication Certificate

{"invoiceHash":"4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"Authentication-Errors","code":"Missing-Authentication-Certificate","message":"Please include the missing certificate in the header"}]}

Example data
Content-Type: InvalidInvoiceHash

{"invoiceHash":"4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"INVOICE_ERRORS","code":"Invalid-Invoice-Hash","message":"The provided invoice hash is invalid"}]}

Example data
Content-Type: Missing Invoice

{"invoiceHash":"4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"INVOICE_ERRORS","code":"Empty-Invoice","message":"Invoice is a required field"}]}

Example data
Content-Type: Missing Invoice Hash

{"invoiceHash":"","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"INVOICE_ERRORS","code":"Empty-Invoice-Hash","message":"Invoice hash is a required field"}]}

Example data
Content-Type: Invalid Signature

{"invoiceHash":"4JFgbmivjFU/otPSMfZCJTSISc123DbdQkOKHLe1J1Q=","status":"NOT_REPORTED","warnings":null,"errors":[{"category":"SIGNATURE_ERROR","code":"signatureValue","message":"wrong signature Value "}]}

401
Returned when username and password are not added or added as wrong values.
Example data
Content-Type: Unuthorized

{"timestamp":1654514661409,"status":401,"error":"Unauthorized","message":""}

500
HTTP Internal Server Error. Returned when the service faces internal errors. ErrorModel
Example data
Content-Type: InternalServerError

{"category":"HTTP-Errors","code":"500","message":"Something went wrong and caused an Internal Server Error."}

Models

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Table of Contents

ErrorModel - ErrorModel

Up

An object representing the structure of the error object returned by the API endpoints. Specifically, it includes the Category of the error, its code and message.

category (optional)
String

code (optional)
String

message (optional)
String

InfoModel - InfoModel Up

An object representing the result of the clearance or reporting API endpoints when the clearance flag is turned on or off. Basically, it shows an informational message instructing the client to see the other api.

message (optional)
String

InvoiceRequest - InvoiceRequest Up

An object representing the structure of the clearance endpoint request. Specifically, it has the the submitted document hash and the base64 representation of the invoice.

invoiceHash (optional)
String

invoice (optional)
String

InvoiceResultModel - InvoiceResultModel Up

An Object the represents the response of the API endpoint where it shows the results including status, warnings (if any), and error (if any) in addition to the submitted document hash

invoiceHash (optional)
String

status (optional)
String
Enum:
Reported
Not Reported
Accepted with Warnings

warnings (optional)
array[WarningModel]

erros (optional)
array[ErrorModel]

WarningModel - WarningModel Up

An object representing the structure of the warning object returned by the API endpoints. Specifically, it includes the Category of the warning, its code and message.

category (optional)
String

code (optional)
String

message (optional)
String