e-Invoicing

Software Development Kit highlights

Based on IRBM's release on 6 April 2024

9 April 2024

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KPMG in Malaysia

Software Development Kit 1.0

On 6 April 2024, the IRBM has provisioned SDK 1.0 Release to help taxpayers in preparing for the upcoming MyInvois System. The below highlights key updates as part of this release.

Source for the SDK: Official portal of [IRBM](#)

Summary of Changes in SDK 1.0 Release for MyInvois System

APIs	Description
Updated Validations & Documentation	• All data fields and field descriptions in the Types > Invoice v1.0 have been updated • Mandatory fields in the Types > Invoice v1.0 data structure have been revise • Descriptions in the Types > Invoice v1.0 data structure have been updated • Guidance has been provided for non-registrants in the Types > Invoice v1.0 data structure • Implementation of UBL2.1 Sequencing to enhance validation and readability • Description field for Fee/Charge Rate has been updated
New Additions	• Addition of new code '044 - Vouchers, gift cards, loyalty points, etc' in 'Codes' • Inclusion of Tax Exemption Field in both Invoice and Invoice-Line • Guidance on Digital Signature Creation and Validation, along with sample, has been added
Updates to API Documentation	• e-Invoice functionality API documentation has been updated • Clarification provided on error responses and inputs for various API endpoints • The list of Sandbox APIs and Sandbox Identity Service URL on the FAQ page has been updated • Updates made to the writeup of HTTP 400 Error Responses for multiple APIs
Other Updates	• Enhanced documentation on document types, hashing, and getting started. • Updates made to currency exchange rate and file size limitations. • Improvements made to mathematical mapping

To access the Sandbox environment for MyInvois: Obtaining a Client ID and Client Secret is essential

- To do so, individuals need to send an email request to sdkmyinvois@hasil.gov.my, including specific information such as:

  - Taxpayer TIN,

  - Business Registration Number,

  - Company Name,

  - Company Email Address, and

  - ERP System Name.

  This step is crucial for accessing and testing the Sandbox environment, which is expected to be available by the end of April 2024.

- The Sandbox Environment offers a range of APIs for testing purposes, categorized into Actual and Stub APIs. Actual APIs are fully functional, providing real responses, while Stub APIs offer temporary mock responses until full implementation. APIs include functionalities like login, document retrieval, validation, submission, and document actions.

  - Login as Taxpayer System (Actual)

  - Login as Intermediary System (Stub)

  - Get All Document Types (Stub)

  - Get Document Type (Stub)

  - Get Document Type Version (Stub)

  - Get Notifications (Stub)

  - Validate Taxpayer's TIN (Actual)

  - Submit Documents (Actual, limited to Structure Validator only)

  - Cancel Document (Stub)

  - Reject Document (Stub)

  - Get Recent Documents (Stub)

  - Get Submission (Stub)

  - Get Document (Actual)

  - Get Document Details (Stub)

  - Search Documents (Stub)

Summary of Digital Signature Process

Introduction
- Guidance provided for creating digital signatures for documents submitted via the SDK APIs, following UBL 2.1 standards for XML and JSON.
- Specific methods described apply only to documents submitted through the SDK APIs.

Digital Signing Certificate Profile
- Specifies requirements for the digital certificate used for digital signing, including elements in the certificate distinguished name and key usage.
- Key usage and enhanced key usage extensions are specified to ensure digital signature level.

Digital Signature Creation Requirements and Considerations
- Requirements for digital signature creation include using XAdES-T algorithm with SHA 256 hashing and RSA signature algorithm.
- Enveloped digital signature profile is specified, outlining what elements should not be included in signature calculation.

Digital Signature Structure
- Defines the structure of the signature element, signed information, key information, and object element.
- ExtensionURI is specified for the signature element.

Signed Information

Specifies canonicalization method, signature method, document signed data, and XAdES signed properties.

Signature Creation

Details the creation process, including the elements to be signed, such as signature value, document digest, signed properties digest, and certificate information digest.

Signature Validation

Validation rules outlined include ensuring the signature follows XAdES-T structure, the signing certificate is valid at the submission date, and matches the issuer of the document or intermediary organization.

The table below sets out the various abbreviations and references used in this publication.

Abbreviation	Reference
API	Application Programming Interface
ERP	Enterprise Resource Planning
IRBM	Inland Revenue Board of Malaysia
JSON	JavaScript Object Notation
SDK	Software Development Kit
TIN	Tax Identification Number
XML	Extensive Markup Language

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