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# Technical Specification & INTERFACE CONTROL DOCUMENT

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## MSC TRUSTGATE.COM SDN BHD (MSCTG eInvoice API for Roaming Certificate)

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## Document Revision History

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1.0	10-05-2024	New release	Rosliza binti Abdul Ghani
1.1	04-06-2024	Update input parameter	Rosliza binti Abdul Ghani

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## **1. INTRODUCTION**

### **1.1 PURPOSE**

This Technical Specification is to describe the requirements between client software and MSCTG eInvoice API.

### **1.2 SCOPE**

This document applies during the development and integration phases of MSCTG with client software. It focuses on the invoice signing and XAdES structure format.

### **1.3 REQUIREMENTS**

Before proceeding with any transactions, users must purchase and activate the LHDN e-Invoice Organization Certificate (Roaming). The activation process will establish the required authentication credentials needed to use this API. Users are responsible for preparing their e-Invoice documents in XML or JSON format according to LHDN requirements. The e-Invoice is then passed to MSC Trustgate through an API, which will return a signed e-Invoice using the user's LHDN e-Invoice Organization Certificate, ready to be submitted to LHDN.

## 2. FUNCTION

The section describes the following functions:

1. Sign Invoice

### 2.1 SIGN INVOICE

<b>Function/Method Name:</b>	<b>SignInvoice</b>			
<b>Method</b>	<b>POST</b>			
<b>Description</b>	To sign eInvoice document using roaming certificate			
<b>URL:</b>	{{api_url}}/eInvoiceSigning/SignInvoice			
<b>Supported Request Formats:</b>	application/json			
<b>Input Parameters:</b>	<b>Field Name</b>	<b>Type</b>	<b>M/O</b>	<b>Remarks</b>
	format	String	M	eInvoice data format. Example : JSON or XML
	UserID	String	M	The Tax Identification Number to get the validity of the tin. Example: C71395142065
	CertPIN	String	M	Certificate PIN Example : 12345678
	Base64file	String	M	XML document (in Base64)
Notes : M = Mandatory, O = Optional				

<b>Output/Return Values:</b>	<b>Field Name</b>	<b>Type</b>	<b>Remarks</b>
	SignedData	String	Base64 string of signed xml document in xades format
	statusCode	String	Status code of the request
	statusMsg	String	Status message of the request
<b>Sample Json response:</b>	<pre>{   "statusCode": "000",   "statusMsg": "Signing data success",   "SignedData": "PD94bWwgdmDQ...." }</pre> <p>Notes : json string need to convert to base64 string</p>		

### 3. STATUS CODE DEFINITION

StatusCode	StatusMsg
SI000	Success
SI100	Error parsing JSON request string
SI101	Error <Exception error>
SI102	Invalid certificate PIN

### 4. API URL

The following is eInvoice API URL for sandbox environment.

Note:

- i. Sandbox to use for testing purpose at TG side
- ii. Production API to be used in UAT Phase

#### Environment

Environment	API URL
Sandbox	<a href="https://digitalid.msctrustgate.com/einvoice-sb">https://digitalid.msctrustgate.com/einvoice-sb</a>
Production	<a href="https://digitalid.msctrustgate.com/einvoice">https://digitalid.msctrustgate.com/einvoice</a>

## 5. API AUTHENTICATION INFO

Please email to our support to get API authentication by sending an email to [support@msctrustgate.com](mailto:support@msctrustgate.com). You may also call our support team at 03-83181800 during MSC Trustgate Business Hour (Monday – Friday: 9am – 6pm; Lunch Time: 1pm – 2pm (Friday: 12.15pm – 2.45pm)).