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Technical Specification & INTERFACE CONTROL DOCUMENT

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

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Document Revision History

Version	Date	Comment	Author
1.0	10-05-2024	New release	Rosliza binti Abdul Ghani
1.1	04-06-2024	Update input parameter	Rosliza binti Abdul Ghani
1.2	20-08-2024	<ol style="list-style-type: none">1. Add High Level Process Flow2. Update:<ol style="list-style-type: none">i. Section 2.1 – Add field name SignedDataHash for SignInvoice functionii. Section 5 - API Authentication Info3. Remove API URL Section: The API URL has already been provided in Section 2.1 (URL section), making this section redundant.	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

Function/Method Name:	SignInvoice			
Method	POST			
Description	To sign eInvoice document using roaming certificate			
URL:	https://digitalid.msctrustgate.com/einvoice/eInvoiceSigning/SignInvoice			
Supported Request Formats:	application/json			
Input Parameters:	Field Name	Type	M/O	Remarks
	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				

Output/Return Values:	Field Name	Type	Remarks
	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
	SignedDataHash	String	The hash value (SHA-256) generated from the submitted signed data
Sample Json response:	<pre>{ "statusCode": "000", "statusMsg": "Signing data success", "SignedData": "PD94bWwgdmDQ....", "SignedDataHash": "yLHa9uMI4Z3...." }</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. HIGH LEVEL PROCESS FLOW

The diagrams below show the outlines of the high-level process flow for signing with a roaming certificate.

Diagram 1 illustrates the process flow for eInvoice signing in XAdES format, detailing the interaction between the client and the MSC Trustgate team.

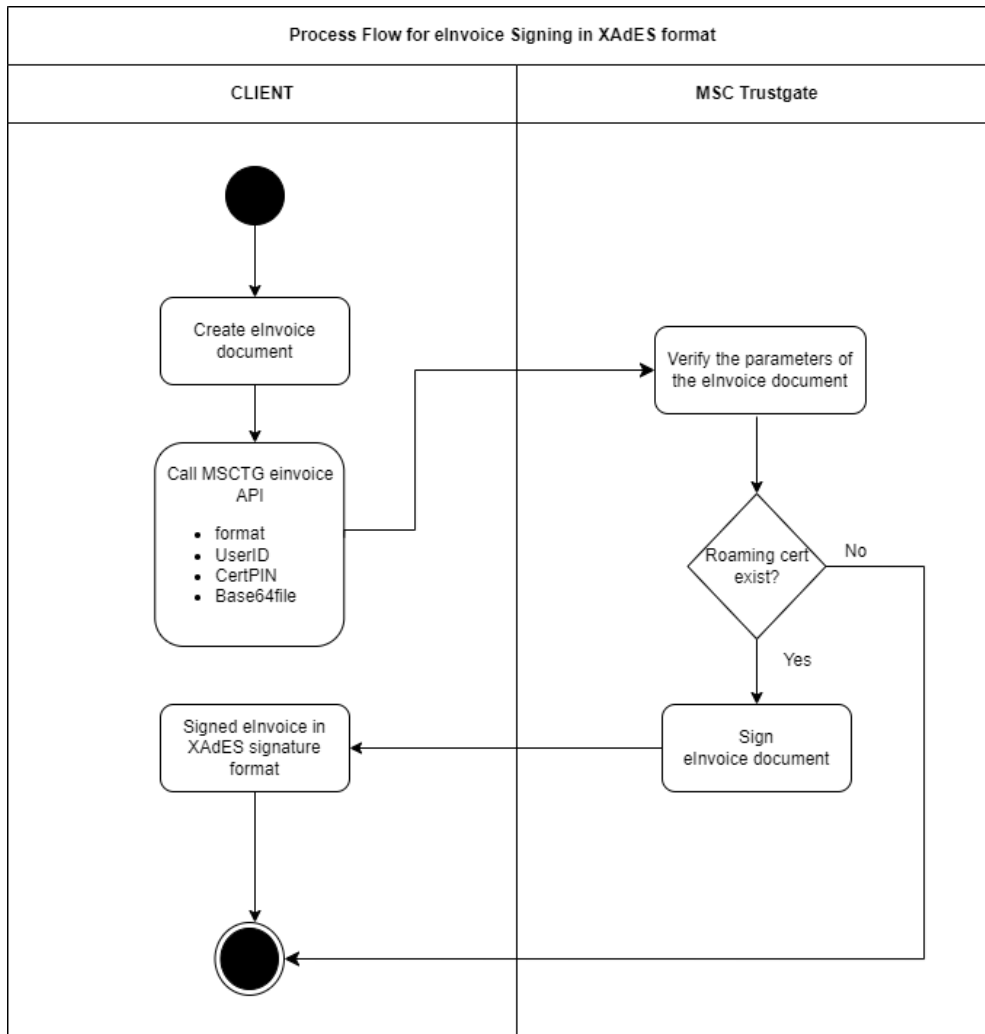


Diagram 1

Diagram 2 illustrates the process flow for document submission via API to LHDN, highlighting the interaction between the client and LHDN team.

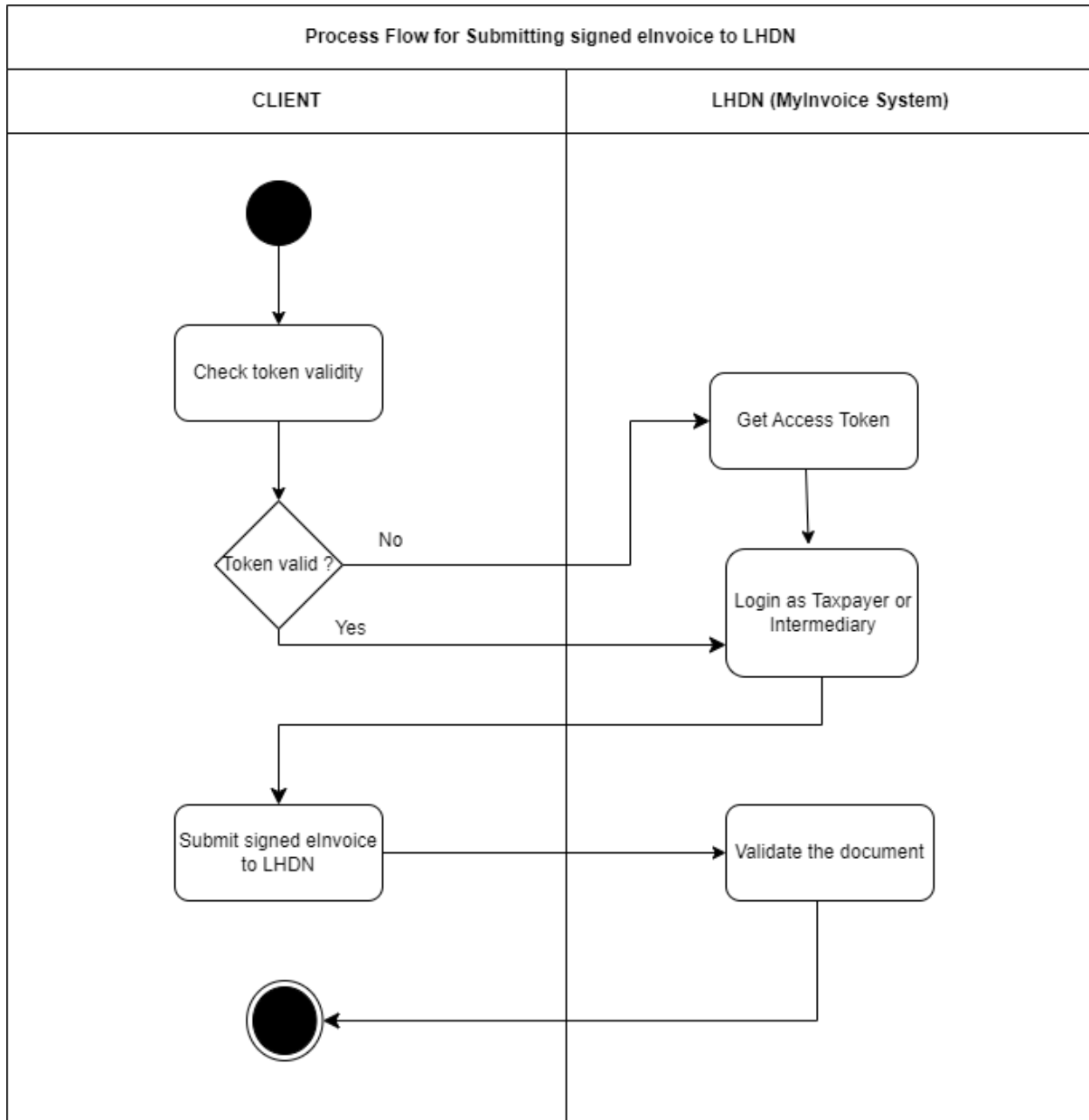


Diagram 2

5. API AUTHENTICATION INFO

After completing the Set Certificate PIN process, you will receive an email containing your API Authentication token/ key. If you do not receive this email, please contact our support team at 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) for assistance.