Nphies Testing

Postman

Postman is a testing tool used to send different type of requests (Eligibility, Authorization, Claim, ..etc.) and receive responses through it.

Postman Installation

First you need to download the tool from the below URL:

https://www.postman.com/downloads/

Then we install it from the "Postman-win64-*-Setup" file you have in the Downloads folder.

After installing Postman (for more information about installation please refer to document **Postman Installation**)

- choose the "Method: POST" and take the up-to-date sample requests that you should download from the Community Portal and we put it in the body tab.
- choose "raw" and the type "json" as showed in the snapshot.
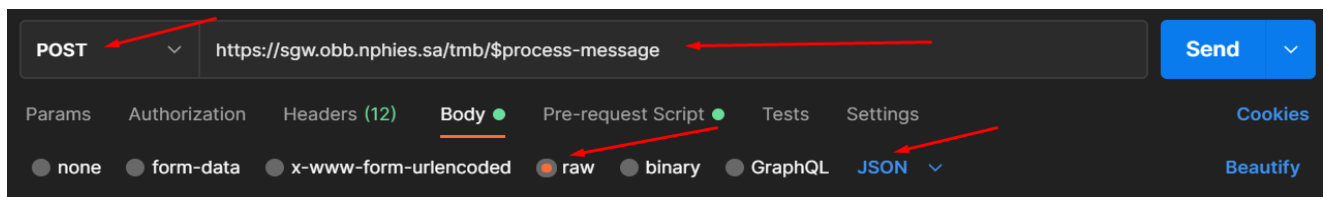
Request Body:

Market Journey

The following table explain the market journey of testing from reference testing till Production including each stage requirements.

	1- Reference Testing	2- Conformance Testing	3- Production Testing
URL	**https://sgw.obb.nphies.sa/tmb/$process-message**	**http://176.105.150.83/$process-message**	**https://hsb.nphies.sa/$process-message**
Username/Password?	Required	Not Required	Not Required
Certificate	Not Required	Not Required	Required (including pass phrase) *
IP Whitelisting	Not Required	Required	Required
Testing Order	First	Second	Final
Pseudo Payer Testing	Yes	Yes	No
Testing Method: Postman Payer/Provider System	Postman	Payer/Provider System	Payer/Provider System

* Certificate authentication required from both Payer and Nphies side.

Reference Implementation Environment

The reference implementation provides a testing environment where HCP's, HIC's, TPAs and Vendors can test the reference implementation transactions and compare them with the transactions generated by their system based on the different use cases and message exchanges built in the Nphies profiles.

Reference implementation Requirements

1- HCP, HIC, TPA already registered within Nphies. "Must contact the Account Manager".
2- Access to Community Portal – https://cportal.nphies.sa.
3- Reference implementation Username and password. "Will be provided by the Account Managers"
4- Download Nphies Profiles, Codeable concepts, IG and JSON samples from Community Portal.
5- Use postman to send the requests from the downloaded samples.

Testing will be done through the reference implementation environment which can be accessed using the following URL:

https://sgw.obb.nphies.sa/tmb/$process-message
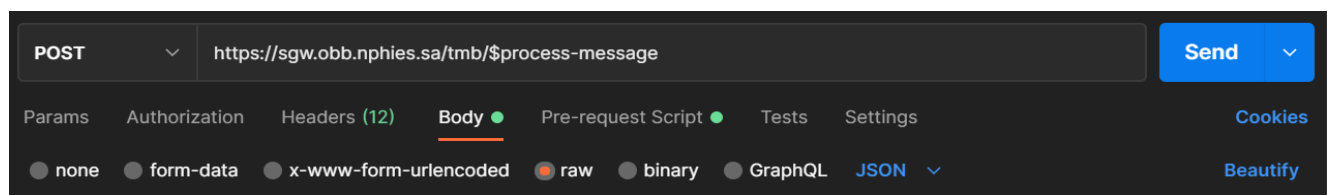
Important Notes:

In the Headers tab, you must add:

1- Username. "Provided by Account Managers"

2- Password. "Provided by Account Managers"

3- Content-Type: application/fhir+json
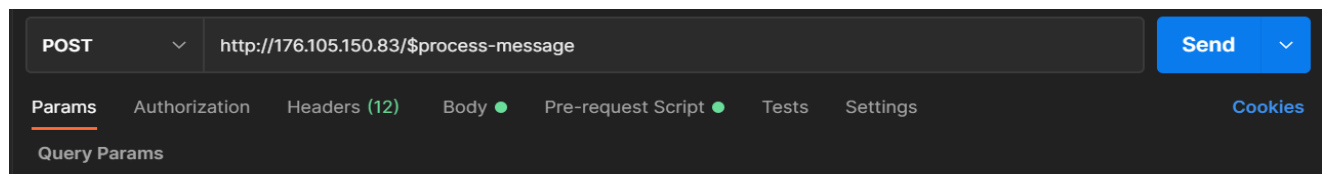
Conformance Environment

After successfully completing the testing through the Reference Implementation Environment, we go to the next stage to test through Conformance Environment.

Conformance Testing Requirements

1- Passed Reference testing
2- Generate Request from Provider/Payer HIS.
3- IP whitelisted in Conformance. "Shall be done by the Account Manager"

Use the following URL to send/submit requests in Conformance Testing.

http://176.105.150.83/$process-message

Production Environment

After successfully completing the testing through the Conformance Environment, we move to the final stage to test through Production Environment, we use the following URL to send/submit requests to it.

Production Testing Requirements

1- Passed Conformance testing
2- Generate Request from Provider/Payer HIS in Production.
3- IP whitelisted in Production. "Shall be done by the Account Manager"
4- PKI certificate configured.
5- Use the following URL to send/submit requests in Production Testing.
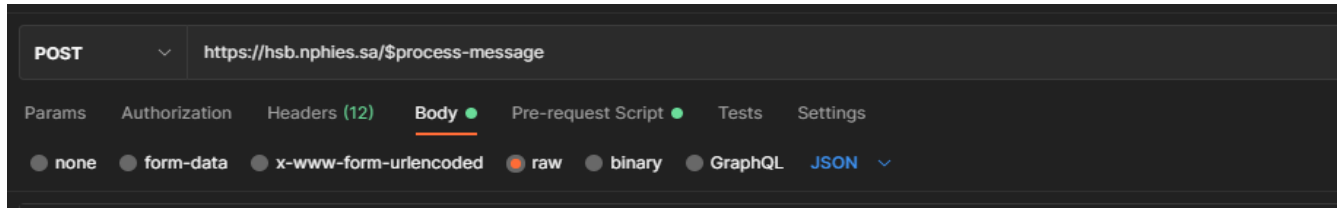
Installing the Certificate with Postman

Note: The PKI certificate should be sent for every https request from payer/provider system to NPHIES, the purpose of describing the steps in postman is only to show configured parameters and type of certificate used.

Note: The certificate will be provided by the Account Manager with PKI Certificate Enrollment Process.
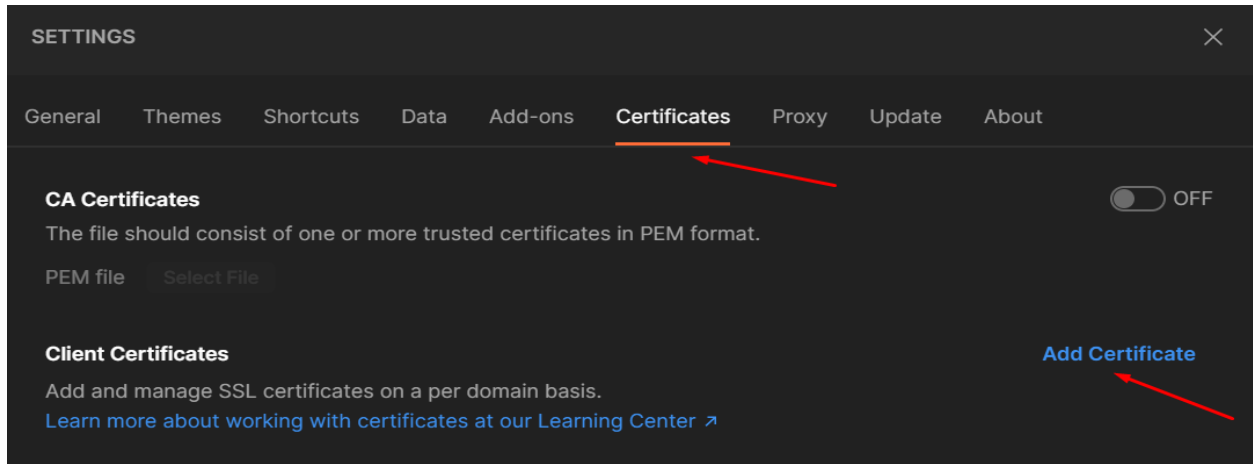
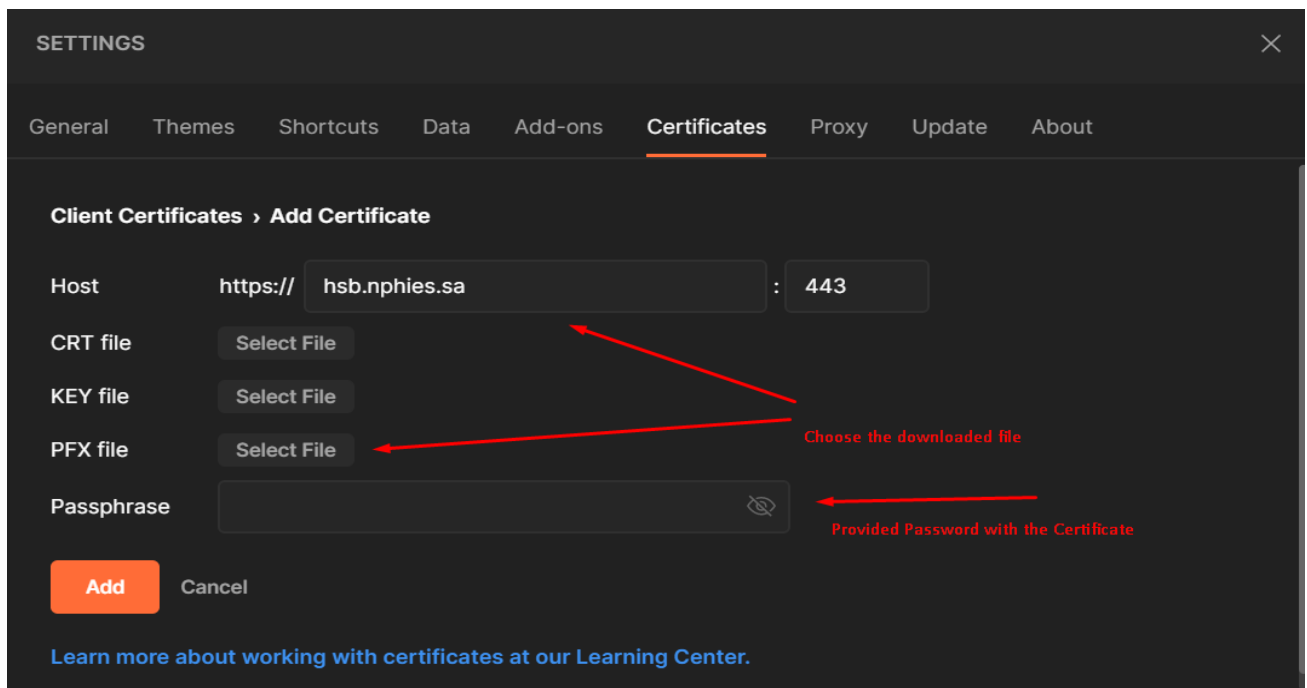1. Settings -- Enable SSL certificate verification "On".
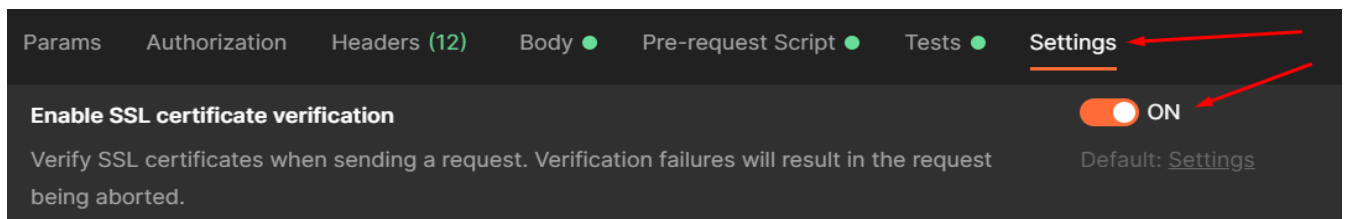
2. Press Settings.
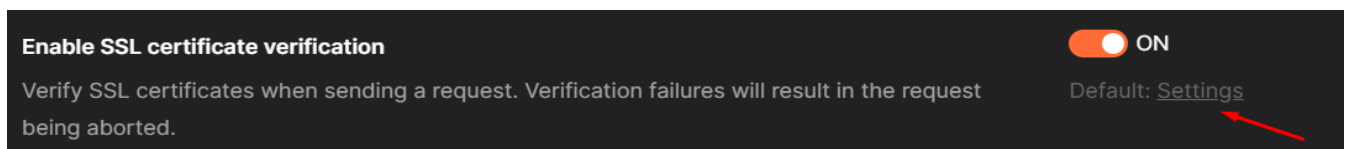
4. Press Certificates – Add Certificate.

5. Put the host name: https://hsb.nphies.sa in the host field.
Port number is 443,
Attach the certificate file you downloaded using the PFX file,
Put the password that you have been provided in the passphrase field.
Click "Add".

The certificate is installed successfully and ready to test requests on production.

Troubleshooting Connectivity issues

In case Market unable to connect to one of the environment try the following troubleshooting steps

Conformance Testing

- o Open command line cmd from start menu
- o Run telnet command as follow
    - ▪ telnet 176.105.150.83 80

If you received (Could not open connection to the host, on port 80: Connect failed) then following reasons might be the issue

- Nphies IP isn't whitelisted from Provider/Payer side.
    - o Payer/Provider to confirm with their network team that they are able to reach Nphies IP
- Provider/Payer IP not whitelisted
    - o Please communicate the IPs with the account managers to check if they are whitelisted from Nphies side

Production Testing

- o Open command line cmd from start menu
- o Run telnet command as follow
    - ▪ telnet 176.105.150.87 443

If you received (Could not open connection to the host, on port 443: Connect failed) then following reasons might be the issue

- Nphies IP isn't whitelisted from Provider/Payer side.
    - o Payer/Provider to confirm with their network team that they are able to reach Nphies IP
- Provider/Payer IP not whitelisted

Please communicate the IPs with the account managers to check if they are whitelisted from Nphies side