



mTLS on SBA Interfaces

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Feature Summary Revision History

Summary Data

Table 1: Summary Data

| | |
|--|---|
| Applicable Product(s) or Functional Area | PCF |
| Applicable Platform(s) | SMI |
| Feature Default Setting | Disabled – Configuration required to enable |
| Related Documentation | Not Applicable |

Revision History

Table 2: Revision History

| Revision Details | Release |
|-------------------|-----------|
| First introduced. | 2022.04.0 |

Feature Description

PCF supports Hypertext Transfer Protocol (HTTP) over Transport Layer Security (TLS) for provided Service Based Interfaces (SBI). PCF enables support to the TLS client authentication for NF consumers (SMF, AF) and authenticates itself with NFs (CHF, UDR, NRF).

Enabling and disabling mTLS: PCF supports the configuration option to enable and disable TLS client authentication for REST server endpoints when using HTTPS.

Certificate configuration: PCF configures with a single certificate and enabled with server authentication and client authentication. When mTLS enabled, PCF uses the same certificate for client authentication.

How it Works

This section describes how this feature works.

Standards Compliance

This feature complies with the following standards specifications:

- 3GPP 29.510 "Network function repository services"
- 3GPP 33.310 "Network Domain Security (NDS), Authentication Framework (AF)"
- 3GPP 33.501 "Security architecture and procedures for 5G system"

Feature Configuration

To configure this feature, use the following configuration:

Configuring mTLS for REST Endpoints Using HTTPS

```
config
  rest-endpoint mTLS [true|false]
end
```

NOTES:

- **rest-endpoint mTLS [true | false]** —Specifies the rest endpoint for mTLS. For example, the specified default value is false.



Note PCF does not support simultaneous enablement of HTTP and HTTPS on SBI interfaces. PCF configures with either HTTP or HTTPS since the URI scheme setting for the Rest endpoint is global.
