HTTPS Configuration v1.0

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Resource: certificate

The SSL certificate used on the HTTPS port

```
http://{device}/api/npm.https/1.0/certificate
```

JSON

```
{
  "expires_at": integer,
  "fingerprint": {
    "algorithm": string,
    "value": string
  },
  "issuer": distingushed_name,
  "key": {
    "algorithm": string,
    "size": integer
  },
  "pem": string,
  "subject": distingushed_name,
  "valid_at": integer
}
```

Property Name	Type	Description	Notes
certificate	*<object>*	The SSL certificate used on the HTTPS port	Required properties: [issuer, subject, valid_at, expires_at, fingerprint, key, pem];
*certificate.*expires_at	*<integer>*	Time at which the certificate expires, in Unix epoch seconds	
*certificate.*fingerprint	*<object>*	Certificate fingerprint information	Required properties: [algorithm, value];
*certificate.*fingerprint.algorithm	*<string>*	The algorithm used to calculate the fingerprint	
*certificate.*fingerprint.value	*<string>*	Fingerprint value	
*certificate.*issuer	*<distingushed_name>*	Distinguished name information	
*certificate.*key	*<object>*	Certificate key information	Required properties: [algorithm, size];
*certificate.*key.algorithm	*<string>*	The algorithm used to generate the key	
*certificate.*key.size	*<integer>*	The size (number of bits) of the key	
*certificate.*pem	*<string>*	The certificate, in PEM format	
*certificate.*subject	*<distingushed_name>*	Distinguished name information	
*certificate.*valid_at	*<integer>*	Time at which the certificate becomes valid, in Unix epoch seconds	

Links

certificate: generate

Generate a new self-signed certificate and private key. This replaces the current certificate.

```
POST http://{device}/api/npm.https/1.0/certificate/generate
```

Request Body

Provide a distingushed_name data object.

Response Body

Returns a certificate data object.

certificate: get

```
GET http://{device}/api/npm.https/1.0/certificate
```

Response Body

Returns a certificate data object.

certificate: import

Import a new certificate and private key

POST http://{device}/api/npm.https/1.0/certificate/import

Request Body

Provide a request body with the following structure:

JSON

```
{
  "passphrase": string,
  "pem": any
}
```

Property Name	Type	Description	Notes
certificate.links.import.request	*<object>*	Import request format	Required properties: [pem];
certificate.links.import.request.passphrase	*<string>*	Optional passphrase to decrypt private key	Optional;
certificate.links.import.request.pem	*<any>*	Certificate and private key to import, in PEM format	

Response Body

Returns a certificate data object.

Resource: http

HTTP configuration

http://{device}/api/npm.https/1.0/http

JSON

```
{
  "available_ports": [
    {
      "max": integer,
      "min": integer
    }
  ],
  "mode": string,
  "port": integer
}
```

Property Name	Type	Description	Notes
http	*<object>*	HTTP configuration	Required properties: [mode, port];
http.available_ports	*<array of <object>>*	Port ranges HTTP may be configured to use	Read-only; Optional;
http.available_ports[items]	*<object>*	A contiguous range of port values	Read-only; Required properties: [min, max];
http.available_ports[items].max	*<integer>*	Maximum port value in this range	Read-only;
http.available_ports[items].min	*<integer>*	Minimum port value in this range	Read-only;
http.mode	*<string>*	Mode of the HTTP port	Values: enabled, disabled, redirect_to_https;
http.port	*<integer>*	Port HTTP is listening on (if not disabled)	

Links

http: get

GET http://{device}/api/npm.https/1.0/http

Response Body

Returns a http data object.

http: set

PUT http://{device}/api/npm.https/1.0/http

Request Body

Provide a http data object.

Response Body

Returns a http data object.

Resource: https

HTTPS configuration

```
http://{device}/api/npm.https/1.0/https
```

JSON

```
{
  "available_ports": [
    {
      "max": integer,
      "min": integer
    }
  ],
  "available_ssl_protocols": [
    string
  ],
  "port": integer,
  "ssl_ciphers": string,
  "ssl_protocols": [
    string
  ]
}
```

Property Name	Type	Description	Notes
https	*<object>*	HTTPS configuration	Required properties: [port, ssl_protocols, ssl_ciphers];
https.available_ports	*<array of <object>>*	Port ranges HTTPS may be configured to use	Read-only; Optional;
https.available_ports[items]	*<object>*	A contiguous range of port values	Read-only; Required properties: [min, max];
https.available_ports[items].max	*<integer>*	Maximum port value in this range	Read-only;
https.available_ports[items].min	*<integer>*	Minimum port value in this range	Read-only;
https.available_ssl_protocols	*<array of <string>>*	The SSL protocols available to use	Optional;
https.available_ssl_protocols[items]	*<string>*		
https.port	*<integer>*	Port HTTPS is listening on	
https.ssl_ciphers	*<string>*	The SSL cipher string to use	
https.ssl_protocols	*<array of <string>>*	The SSL protocols to enable. Each list item must be one of the values in the available_ssl_protocols list.	
https.ssl_protocols[items]	*<string>*		

Links

https: get

```
GET http://{device}/api/npm.https/1.0/https
```

Response Body

Returns a https data object.

https: set

```
PUT http://{device}/api/npm.https/1.0/https
```

Request Body

Provide a https data object.

Response Body

Returns a https data object.

Type: distingushed_name

Distinguished name information

JSON

```
{
  "common_name": string,
  "country": string,
  "email": string,
  "locality": string,
  "organization": string,
  "organizational_unit": string,
  "state": string
}
```

Property Name	Type	Description	Notes
distingushed_name	*<object>*	Distinguished name information	
*distingushed_name.*common_name	*<string>*	Common name (CN)	Optional;
*distingushed_name.*country	*<string>*	Country code (C)	Optional;
*distingushed_name.*email	*<string>*	Email address	Optional;
*distingushed_name.*locality	*<string>*	Locality (L)	Optional;
*distingushed_name.*organization	*<string>*	Organization name (O)	Optional;
*distingushed_name.*organizational_unit	*<string>*	Organization unit name (OU)	Optional;
*distingushed_name.*state	*<string>*	State or province name (ST)	Optional;