



JOSE Protected Message Forwarding

3GPP TS 29.573 [27] specifies protocol for the exchange of the messages described above over N32, the format of the JOSE (see IETF RFC 7516 [25] and IETF RFC 7515 [26]) protected messages and the procedure for forwarding of the JOSE protected messages over N32.

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OpenAPI

OpenAPI Version: 3.0.0

info

Version: '1.0.0'

Title: 'JOSE Protected Message Forwarding API'

Description: 'N32-f Message Forwarding'

externalDocs

Description: 3GPP TS 29.573 V15.1.0; 5G System; Public Land Mobile Network (PLMN) Interconnection; Stage 3

URL: http://www.3gpp.org/ftp/Specs/archive/29_series/29.573/

servers

URL: '{apiRoot}/n32f-forward/v1'

Variables:

API Root:

Default: https://example.com

Description: apiRoot as defined in subclause 4.4 of 3GPP TS 29.501.

paths

/n32f-process

Method: Post

Summary: N32-f Message Forwarding

Tags:

- N32-f Forward

Operation ID: PostN32fProcess

Request Body:

Description: Custom operation N32-f Message Forwarding

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N32fReformattedReqMsg'

Responses:

'200' OK (Successful forwarding of reformatted message over N32-f)

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N32fReformattedRspMsg'

'400': Reference 'TS29571_CommonData.yaml#/components/responses/400'

'411': Reference 'TS29571_CommonData.yaml#/components/responses/411'

'413': Reference 'TS29571_CommonData.yaml#/components/responses/413'

'415': Reference 'TS29571_CommonData.yaml#/components/responses/415'

'429': Reference 'TS29571_CommonData.yaml#/components/responses/429'

'500': Reference 'TS29571_CommonData.yaml#/components/responses/500'

'503': Reference 'TS29571_CommonData.yaml#/components/responses/503'

default:

Description: Unexpected error

components

schemas

FlatJweJson

Type: object

Required:

- ciphertext

Properties:

protected:

Type: string

unprotected:

Type: object

header:

Type: object

encrypted_key:

Type: string

aad:

Type: string

iv:

Type: string

ciphertext:

Type: string

tag:

Type: string

FlatJwsJson

Type: object

Required:

- payload

- signature

Properties:

payload:

Type: string

protected:

Type: string

header:

Type: object

signature:

Type: string

N32fReformattedReqMsg

Type: object

Required:

- reformattedData

Properties:

reformattedData:

Reference: '#/components/schemas/FlatJweJson'

modificationsBlock:

Type: array

Items:

Reference: '#/components/schemas/FlatJwsJson'

minItems: 1

N32fReformattedRspMsg

Type: object

Required:

- reformattedData

Properties:

reformattedData:

Reference: '#/components/schemas/FlatJweJson'

modificationsBlock:

Type: array

Items:

Reference: '#/components/schemas/FlatJwsJson'

minItems: 1

DataToIntegrityProtectAndCipherBlock

Type: object

Required:

- dataToEncrypt

Properties:

dataToEncrypt:

Type: array

Items:

Type: object

minItems: 1

DataToIntegrityProtectBlock

Type: object

Properties:

metaData:

Reference: '#/components/schemas/MetaData'

requestLine:

Reference: '#/components/schemas/RequestLine'

statusLine:

Type: string

headers:

Type: array

Items:

Reference: '#/components/schemas/HttpHeader'

minItems: 1

payload:

Type: array

Items:

Reference: '#/components/schemas/HttpPayload'

minItems: 1

RequestLine

Type: object

Required:

- method

- scheme
- authority
- path
- protocolVersion

Properties:**method:**

Reference: 'TS29573_N32_Handshake.yaml#/components/schemas/HttpMethod'

scheme:

Reference: 'TS29571_CommonData.yaml#/components/schemas/UriScheme'

authority:

Type: string

path:

Type: string

protocolVersion:

Type: string

queryFragment:

Type: string

HttpHeader

Type: object

Required:

- header
- value

Properties:**header:**

Type: string

value:

Reference: '#/components/schemas/EncodedHttpHeaderValue'

HttpPayload

Type: object

Required:

- iePath
- ieValueLocation
- value

Properties:**iePath:**

Type: string

ieValueLocation:**Reference:** 'TS29573_N32_Handshake.yaml#/components/schemas/IeLocation'**value:**

Type: object

MetaData

Type: object

Required:

- n32fContextId

- messageId

- authorizedIpxId

Properties:**n32fContextId:**

Type: string

messageId:

Type: string

authorizedIpxId:

Type: string

Modifications

Type: object

Required:

- identity

Properties:**identity:****Reference:** 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/Fqdn'**operations:**

Type: array

Items:**Reference:** 'TS29571_CommonData.yaml#/components/schemas/PatchItem'**minItems:** 1

IndexToEncryptedValue

Type: object

Required:

- encBlockIndex

Properties:

encBlockIndex:

Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'

EncodedHeaderValue

oneOf:

- type: string

- \$ref: '#/components/schemas/IndexToEncryptedValue'