

Equipment Identity Register

EIR allows the AMF to interact with EIR to validate the UE identity during the UE registration procedure.

- OpenAPI, on page 1
- Info, on page 1
- Servers, on page 2
- Security, on page 2
- Paths, on page 2
- Components, on page 5
- External Docs, on page 6

OpenAPI

OpenAPI Version: 3.0.0

Info

Version: '1.1.1'

Title: '5G-EIR Equipment Identity Check'

Description: |

5G-EIR Equipment Identity Check Service.

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Servers

URL: '{apiRoot}/n5g-eir-eic/v1'

Variables:

API Root:

Default: https://example.com

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

Security

- {}
- oAuth2ClientCredentials:
  - n5g-eir-eic

Paths

equipment-status

get:

Summary: Retrieves the status of the UE

Operation ID: GetEquipmentStatus

Tags:

- Equipment Status (Document)

Parameters:

- **Name**: pei

  In: query

  Description: PEI of the UE

```
    Required/Optional: true
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  - Name: supi
    In: query
    Description: SUPI of the UE
    Required/Optional: false
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
  - Name: gpsi
    In: query
    Description: GPSI of the UE
    Required/Optional: false
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
  - Name: supported-features
    In: query
    Description: supported features of the NF consumer
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Responses:
  '200':
    Description: Expected response to a valid request
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/EirResponseData'
  '307':
    Description: temporary redirect
```

```
        Headers:
          Location:
            Description: 'An alternative URI of the resource located on an alternative
service instance within the same 5G-EIR or 5G-EIR (service) set '
            Required/Optional: true
            Schema:
              Type: string
          3gpp-Sbi-Target-Nf-Id:
            Description: 'Identifier of target 5G-EIR (service) instance towards which
the request is redirected'
            Schema:
              Type: string
      '308':
        Description: permanent redirect
        Headers:
          Location:
            Description: 'An alternative URI of the resource located on an alternative
service instance within the same 5G-EIR or 5G-EIR (service) set '
            Required/Optional: true
            Schema:
              Type: string
          3gpp-Sbi-Target-Nf-Id:
            Description: 'Identifier of target 5G-EIR (service) instance towards which
the request is redirected'
            Schema:
              Type: string
      '400':
        Reference: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
        Reference: 'TS29571_CommonData.yaml#/components/responses/401'
      '404':
```

```
      Description: PEI Not Found
      Content:
        application/problem+json:
          Schema:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    '414':
      Reference: 'TS29571_CommonData.yaml#/components/responses/414'
    '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

```
securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:
        tokenUrl: '{nrfApiRoot}/oauth2/token'
        scopes:
          n5g-eir-eic: Access to the N5g-eir_EquipmentIdentityCheck API
schemas:
```

```
EirResponseData:
  Type: object
  Required:
    - status
  Properties:
    status:
        Reference: '#/components/schemas/EquipmentStatus'
EquipmentStatus:
  Type: string
  enum:
    - WHITELISTED
    - BLACKLISTED
    - GREYLISTED
```

External Docs

```
Description: 3GPP TS 29.511 V16.4.0; 5G System; Equipment Identity Register Services;
Stage 3
URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.511/'
```