



REDTEA MOBILE PTE. LTD.

eSIM.plus RSP

Interface Manual



eSIM.**plus**

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Revision History

Version	Date	Change
V1.0.0	Apr 08, 2021	Initial release
V1.1.0	Dec 24, 2021	Added extended ES2+ API
V1.1.1	Mar 03, 2022	Added parameter “profileType” in API AddProfile1 Added parameter “prp” in API: <ul style="list-style-type: none"> • GetProfileInfo • GetProfileTypeInfo
V1.2.0	Jun 03, 2022	Added campaign management API
V1.3.0	Oct 24, 2022	Added new API: <ul style="list-style-type: none"> • GenerateByProfileMetadata • BatchGenerateByProfileMetadata • BatchGenerate • ListBatchTaskInfo
V1.4.0	Jan 05, 2023	Added new API ListDeviceBlocklist
V1.5.0	Mar 20, 2023	Added new API UpdateProfileParam
V1.6.0	Apr 13, 2023	Added new API: <ul style="list-style-type: none"> • AddOP • DeleteOP • ListOP
V1.6.1	Apr 17, 2023	Added parameters in API AddProfile: <ul style="list-style-type: none"> • impi • impuList • C9
V1.7.0	Jul 17, 2023	Added new API GetTransactionList Added parameter “clientIp” in API HandleDownloadProgressInfo
V1.7.1	Jan 25, 2024	Updated error codes
V1.7.2	Mar 01, 2024	Updated error codes descriptions
V1.8.0	Mar 14, 2024	Added new API ResetOrderDownloadCount
V1.8.1	Apr 8, 2024	Added parameters in API CreateCampaign: <ul style="list-style-type: none"> • autoEndTime • reDownload
V1.9.0	Apr 16, 2024	Added new API UpdateProfileParamAndGenerateAC
V1.9.1	Apr 28, 2024	Updated error codes for API: <ul style="list-style-type: none"> • UpdateProfileParam

		<ul style="list-style-type: none"> • UpdateProfileParamAndGenerateAC <p>Updated example request body for API:</p> <ul style="list-style-type: none"> • UpdateProfileParamAndGenerateAC
V2.0.0	May 24, 2024	<p>Added new API:</p> <ul style="list-style-type: none"> • AddProfileByUPPParams • UpdateProfileByUPPParams • AddProfileTypeByUPP • UpdateProfileTemplateByUPP • BatchGenerateByProfileUPPParams
V2.0.1	May 28, 2024	<p>Added error codes for API:</p> <ul style="list-style-type: none"> • AddProfileByUPPParams • UpdateProfileByUPPParams • AddProfileTypeByUPP • UpdateProfileTemplateByUPP • BatchGenerateByProfileUPPParams
V2.1.0	Jun 17, 2024	<p>Added new API:</p> <ul style="list-style-type: none"> • GetProfileStateStatistics • GetAppleUniversalLink
V2.1.1	Jun 25, 2024	<p>Updated description of parameter "total" in GetprofileStateStatistics API response</p>
V2.1.2	Jul 15, 2024	<p>Added 5G parameters in API AddProfileType:</p> <ul style="list-style-type: none"> • protectionScheme • publicKeys • keyIndex • updateStatusAccess • supi • routingIndicator • publicKey
V2.1.3	Jul 17, 2024	<p>Added parameter "c9" in AppletTemplate domain of API AddProfileType</p>
V2.2.0	Jul 22, 2024	<p>Added new API AddOTATransportKey</p> <p>Added parameters in GetProfileInfo and GetProfileTypeInfo API responses</p> <ul style="list-style-type: none"> • Group • operator
V2.2.1	Aug 3, 2024	<p>Added parameters in API AddProfileType, UpdateProfileType and GetProfileTypeInfo:</p> <ul style="list-style-type: none"> • ecallIndication • fallbackAllowed
V2.2.2	Sep 27, 2024	<p>Added TCA 3.3.1 parameters in API AddProfileType:</p> <ul style="list-style-type: none"> - ProfileTemplate domain: <ul style="list-style-type: none"> • eap • euiccMandatoryAIDs • aid

		<ul style="list-style-type: none"> ● version ● snpn ● Prose5g - FifthGenerationParam domain: <ul style="list-style-type: none"> ● ursp ● tn3gppsn ● cag ● sorCmci ● dri ● sedrx5g ● nswoConf5g ● mchpplmn ● kaufDerivation
V2.3.0	Oct 26, 2024	<p>Added new API:</p> <ul style="list-style-type: none"> ● getOrderInfo ● UpdateProfileTemplate <p>Added parameters in API getProfileInfo:</p> <ul style="list-style-type: none"> ● msisdn ● serviceProvicerName ● ara ● pin1 ● pin2 ● puk1 ● puk2 <p>Added parameters in API AddProfileType:</p> <ul style="list-style-type: none"> ● usimCalcSuci ● pk1
V2.3.1	Nov 17, 2024	<p>Added parameter “serviceProviderName” in API:</p> <ul style="list-style-type: none"> ● AddProfile2 ● GenerateByProfileMetadata ● BatchGenerateByProfileMetadata <p>Added “serviceProviderName” to Profile parameters (paramKey) allowed for updates in ParamKeyValue domain of API:</p> <ul style="list-style-type: none"> ● UpdateProfileParam ● UpdateProfileParamAndGenerateAC
V2.4.0	Dec 19, 2024	<p>Added new API generateByProfileUPP</p> <p>Added parameter “comment” in API:</p> <ul style="list-style-type: none"> ● AddDeviceToBlocklist ● ListDeviceBlocklist
V2.4.1	Dec 20, 2024	<p>Added parameter “FileManagementCMD” in API:</p> <ul style="list-style-type: none"> ● AddProfile2 ● GenerateByProfileMetadata ● BatchGenerateByProfileMetadata <p>Updated validation rule for PlmnRat.rat in each API to 4-character value in HEX format</p>
V2.5.0	Feb 10, 2025	Added new API GenerateByUPPParams

V2.6.0	Mar 15, 2025	Added new API UpdateByUPP
V2.6.1	Apr 14, 2025	<p>Added parameters “serviceProviderName”, “profileName”, “gid1”, “gid2” and “ara” in API:</p> <ul style="list-style-type: none"> ● AddProfile1 ● UpdateByUPP ● AddProfileByUPPPParams ● UpdateProfileByUPPPParams ● GenerateByProfileUPP ● GenerateByUPPPParams ● BatchGenerateByProfileUPPPParams
V2.6.2	Apr 27, 2025	<p>Added parameters “profileName”, “gid1” and “gid2” in API:</p> <ul style="list-style-type: none"> ● AddProfile2 ● GenerateByProfileMetadata ● BatchGenerateByProfileMetadata <p>Added “profileName”, “gid1” and “gid2” to Profile parameters (paramKey) allowed for update in the ParamKeyValue domain of API:</p> <ul style="list-style-type: none"> ● UpdateProfileParam ● UpdateProfileParamAndGenerateAC
V2.7.0	May 30, 2025	Added new API DeleteCampaign
V2.7.1	Jun 24, 2025	<p>Added parameter “smsp” in API:</p> <ul style="list-style-type: none"> ● AddProfile2 ● GenerateByProfileMetadata ● batchGenerateByMeta
V2.7.2	Jul 23, 2025	<p>Added parameter “mncLen” in API AddProfile1</p> <p>Added parameters in API HandleDownloadProgressInfo:</p> <ul style="list-style-type: none"> ● deviceModel ● imei ● tac ● deviceName ● deviceBrand ● seqNumber
V2.8.0	Aug 18, 2025	<p>Added new API ClearEID</p> <p>Added parameters in API GetOrderInfo:</p> <ul style="list-style-type: none"> ● availableDownloadAttempts ● availableCCAttempts ● availableDownloadSuccessTimes
V2.8.1	Aug 28, 2025	Categorized ConfirmOrder API message bodies by operation mode: Activation Code, default SM-DP+ and SM-DS
V2.8.2	Sep 10, 2025	Added parameter “orderType” in API GetProfileInfo

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I. Introduction

1.1 About This Document

This document outlines the interfaces of the Redtea Mobile Remote SIM Provisioning (RSP) platform (SM-DP+). It offers guidance for Mobile Network Operators on provisioning eSIM Profile packages for eUICC by calling the GSMA standard ES2+ and Redtea Mobile extended API interfaces. The purpose is to assist developers in effectively utilizing these API interfaces for integration.

1.2 Product Introduction

The Remote SIM Provisioning platform is a core component in the eSIM ecosystem that manages the preparation and personalization of subscription profiles for eSIM-enabled devices. It securely stores and manages eSIM profiles, enabling remote provisioning and management of eSIMs over the air. Deployed in compliance with the GSMA SGP.22 specification and accredited with the GSMA SAS-SM certification, Redtea Mobile RSP platform has the telco-grade security and high reliability. By virtue of robust functionalities, Redtea Mobile RSP Platform empowers Operators to transition to digital solutions while reducing costs and time for device manufacturers launching eSIM devices and services.

II. Terminologies, Abbreviations and Conventions

2.1 Terminologies

Terminology	Description
Bound Profile Package	A Protected Profile Package that has been cryptographically linked to a particular eUICC.
Mobile Network Operator	An entity providing access capability and communication services to its End User through a mobile network infrastructure.
Operational Profile	A Profile used for providing connectivity services by the MNO. The operational Profile can be deleted after installation.
Profile	A combination of data and applications to be provisioned on an eUICC for the purpose of providing services.
Provisioning Profile	A Profile used for providing initial connectivity solely for downloading operational Profile to the device. The provisioning Profile cannot be deleted after installation.
Remote SIM Provisioning	The downloading, installing, enabling, disabling, and deleting of a Profile on an eUICC.
Test Profile	A Profile used for providing connectivity for testing the Device and the eUICC. The test Profile can be deleted after installation.

2.2 Abbreviations

Abbr	Description
AC	Activation Code
BPP	Bound Profile Package
EID	eUICC ID
eUICC	Embedded UICC
GSMA	GSM Association
ICCID	Integrated Circuit Card ID
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
KEK	Key Encryption Key
MNO	Mobile Network Operator
MSISDN	Mobile Subscriber International ISDN Number
PIN	Personal Identification Number
PUK	PIN Unblocking Key
SAS-SM	Security Accreditation Scheme for Subscription Management
SM-DP+	Subscription Manager Data Preparation Plus

2.3 Conventions

Abbr	Description
M	Mandatory - indicates that the specified item or parameter is required for the operation to proceed.
O	Optional - indicates that the specified item or parameter may be included, but is not necessary for the operation to succeed.
C	Conditional - indicates that the specified item or parameter is required only under certain conditions or circumstances.

III. Basic Rules

Profile re-download policy:

Rule ID	Description
0	In Default SM-DP+, Activation Code and SM-DS modes, re-download is not allowed as per GSMA specifications. When receiving the INSTALLATION notification, the RSP platform will clear the Profile content and retain the Profile record and metadata. When receiving the DELETE notification, the RSP platform will update the order to 'Removed', and change the Profile to 'Unavailable'.
1	In Default SM-DP+, Activation Code and SM-DS modes, re-download is not allowed as per GSMA specifications. When receiving the DELETE notification, the RSP platform will update the order to 'Removed', and change the Profile to 'Unavailable'.
2	In Default SM-DP+, Activation Code and SM-DS modes, re-download is not allowed as per GSMA specifications. After receiving the DELETE notification, the RSP platform will update the order to 'Removed', and change the Profile to 'Available'.
3	Only re-download with the same EID is allowed. Re-download does not rely on DELETE notification. In the Default SM-DP+ and Activation Code modes, the Profile can be directly re-downloaded with the same EID regardless of the order status ('Released', 'Downloaded', or 'Installed'). If DELETE notification is received, Rule 4 will be executed.
4	Only re-download with the same EID is allowed. Re-download relies on DELETE notification. In the Default SM-DP+ and Activation Code modes, after receiving DELETE notification, the RSP platform will reset the order to 'Released', the Profile can be re-downloaded with the same EID (in the SM-DS mode, when DELETE notification is received, the Rule 2 will be executed).
5	Re-download with another EID is allowed. Re-download relies on DELETE notification. In the Activation Code mode, after receiving the DELETE notification, the RSP platform will reset the order to 'Released', and unbinds the EID and Profile (only supported in the Activation Code mode, not supported in SM-DS and Default SM-DP+ modes).

IV. Request Header Content

To call the GSMA standard ES2+ and Redtea Mobile extended API interfaces, the following shall be contained in the HTTP request header to ensure valid requests.

Name	Description
Access-Key	Access Key generated by RSP platform for user identity verification
Request ID	Request ID generated by the caller, must be unique for each request. UUID (Universally Unique Identifier) is recommended.
Sign-Method	Signature calculation method, only SHA256 is supported currently.
Signature	Signature (HexString) of the request
Timestamp	Request sending timestamp (in milliseconds)

Example of Request Header

```
'Content-Type: application/json'
'Access-Key: 5e0548f370e345789d54eca87ddabf3'
'Request ID: 8693bd48-21a9-e89c-b20a-563f8f4c45d2'
'Sign-Method: SHA256'
'Signature: 97f565785b473f41db6a34a30ad8ee1c60c94260'
'Timestamp: 1582014908376'
```

Signature Computation

Signature = SHA256 (Timestamp+Request ID+Request _Body+Access _Secret).toLowerCase()

NOTE:

The Access Key and Access Secret will be provided by the Redtea Mobile RSP delivery team during integration.

V. API Interfaces

Root Path:

Test environment rootPath: <https://rsp-xian.redteaready.cn/>

Production environment rootPath: <https://rsp-eu.esim.plus/>

5.1 GSMA Standard ES2+ API

5.1.1 DownloadOrder

Description: To instruct the RSP platform of a new Profile download request.

Method	Path	Status Code
POST	{rootPath}/gsma/rsp2/es2plus/downloadOrder	200

Request Parameters

Name	Type	MOC	Description
iccid	String	C	ICCID
eid	String	O	EID
profileType	String	C ⁽¹⁾	Profile type name
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "downloadOrder".

NOTE:

1. The profileType is required when the ICCID is not present in the DownloadOrder.

Response Parameters

Name	Type	Description
iccid	String	ICCID
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Message

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```
HTTPS POST /gsma/rsp2/es2plus/downloadOrder HTTP/1.1
Connection: keep-alive
Content-Type: application/json
Request ID: b5a41d8c-5c60-434a-9a31-bb573192545b
Sign-Method: SHA256
Timestamp: 1705904794526
Signature: 3bc41d7ea478c004c95ac67566ba15d0d80e8b9852b772e91e3a83747217c9f7
Access-Key: 173e2173dd9951a2220c375d96b6debf
{
  "header": {
    "functionRequesterIdentifier": "b5a41d8c-5c60-434a-9a31-bb573192545b",
    "functionCallIdentifier": "downloadOrder"
  },
  "iccid": "31231231231231235108"
}
```

Example Successful Response Message

```
HTTP/1.1 200 OK
X-Admin-Protocol: gsma/rsp/v2.2.0
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
Date: Mon, 22 Jan 2024 06:26:34 GMT
Keep-Alive: timeout=60
Connection: keep-alive
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "31231231231231235108"
}
```

Example Failed Response Message

```
HTTP/1.1 200 OK
X-Admin-Protocol: gsma/rsp/v2.2.0
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
Date: Mon, 22 Jan 2024 07:56:31 GMT
Keep-Alive: timeout=60
Connection: keep-alive
{
  "header": {
    "functionExecutionStatus": {

```

```
        "status": "Failed",
        "statusCodeData": {
            "subjectCode": "8.2.1",
            "reasonCode": "3.9",
            "message": "Unknown",
            "subjectIdentifier": "Profile ICCID"
        }
    }
}
```

5.1.2 ConfirmOrder

Description: To confirm a previously requested download order to the RSP platform.

Method	Path	Status Code
POST	{rootPath}/gsma/rsp2/es2plus/confirmOrder	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID
eid	String	O	EID
matchingId	String	O	Unique identifier of the order. If the caller does not generate, the RSP platform will generate it automatically.
confirmationCode	String	O	Confirmation code
smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
releaseFlag	Boolean	M	If 'true', the Profile shall be immediately released for Profile download and installation.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description

functionRequesterId entifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "confirmOrder".

The above are the parameter requirements in Activation Code mode (AC mode) , the parameter requirements in Default SM-DP+ and SM-DS modes are detailed in the table below.

ES2+ Function	Input Parameters	Default SM-DP+ Mode	SM-DS Mode
ConfirmOrder	iccid	M	M
	eid	C ⁽¹⁾	C
	matchingId	M ⁽²⁾	O
	confirmationCode	O	O
	smdsAddress	Not present	M
	releaseFlag	M	M

NOTE:

1. In Default SM-DP+ and SM-DS modes, the EID is required when calling the ConfirmOrder if it is not present in the DownloadOrder.
2. In the Default SM-DP+ mode, the value for matchingId should be empty.

Response Parameters

Name	Type	Description
eid	String	EID
matchingId	String	If present in the request, it must match the matchingId provided. If absent, the RSP platform will generate it automatically.
smdpAddress	String	SM-DP+ address (without https://)
header	Object	Response header defined in SGP specification, including

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		functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	<p>Format defined in SGP specification, including:</p> <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	<p>Execution result, including:</p> <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	<p>Format defined in SGP specification, generated when the request execution fails, including:</p> <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● Message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

AC Mode

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "9a119195-3850-4b2c-87d9-03ee2c09e4f3",
    "functionCallIdentifier": "confirmOrder"
  },
  "iccid": "31231231231231235108",
}
```

{

Example Successful Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  },  
  "eid": null,  
  "matchingId": "EF9DB1B4C51FB02B1FD01875A79A0A74",  
  "smdpAddress": "smdp-core.redteatest.com"  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "8.2.1",  
        "reasonCode": "1.2",  
        "message": "Not Allowed",  
        "subjectIdentifier": "Profile ICCID"  
      }  
    }  
  }  
}
```

Default SM-DP+ Mode**Example Request Body**

```
{  
  "iccid": "8888854654651752439f",  
  "eid": "89086034202200001021000034790106",  
  "matchingId": "",  
  "releaseFlag": true,  
  "header": {  
    "functionRequesterIdentifier": "9a111195-3850-4b2c-87d9-01ee2c09e411",  
    "functionCallIdentifier": "confirmOrder"  
  }  
}
```

{
}

Example Successful Response Body

{
 "header": {
 "functionExecutionStatus": {
 "status": "Executed-Success"
 }
 },
 "eid": "89086034202200001021000034790106",
 "matchingId": "",
 "smdpAddress": "rsp-eu.redteamobile.com"
}

Example Failed Response Body

{
 "header": {
 "functionExecutionStatus": {
 "status": "Failed",
 "statusCodeData": {
 "subjectCode": "8.2.1",
 "reasonCode": "1.2",
 "message": "Not Allowed",
 "subjectIdentifier": "Profile ICCID"
 }
 }
 }
}

SM-DS Mode

Example Request Body

{
 "header": {
 "functionRequesterIdentifier": "9a119195-3811-4b2c-87d9-03ee2c11e4f3",
 "functionCallIdentifier": "confirmOrder"
 },
 "iccid": "89860466152480099992",
 "eid": "89086034202200001021000034790106",
}

```
"smdsAddress": "sq-carrier.apple.com",
"releaseFlag": true
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "eid": "89049032007108888100134472313509",
  "matchingId": "CF2F7111CA29B1FC8A9162943FDA1162",
  "smdpAddress": "rsp-eu.redteamobile.com"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "1.2",
        "message": "Not Allowed",
        "subjectIdentifier": "Profile ICCID"
      }
    }
  }
}
```

5.1.3 CancelOrder

Description: To cancel a pending Profile download order request.

Method	Path	Status Code
POST	{rootPath}/gsma/rsp2/es2plus/cancelOrder	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID
eid	String	C	EID
matchingId	String	C	The matchingId SHALL be provided if a MatchingID is known by the Operator for the Profile download order to cancel.
finalProfileStatusIndicator	String	M	Specifies whether the ICCID can be used continually, including: <ul style="list-style-type: none">• Available• Unavailable
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "cancelOrder".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including:

		<ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	<p>Execution result, including:</p> <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	<p>Format defined in SGP specification, generated when the request execution fails, including:</p> <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● Message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "5318e2c3-f46e-4029-821f-eb4f41689322",
    "functionCallIdentifier": "cancelOrder"
  },
  "iccid": "31231231231231235108",
  "finalProfileStatusIndicator": "available"
}
```

Example Successful Response Body

```
{
  "header": {
```

```
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    }  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "8.2.1",  
        "reasonCode": "3.3",  
        "message": "Download Order not Exist",  
        "subjectIdentifier": "Download Order"  
      }  
    }  
  }  
}
```

5.1.4 ReleaseProfile

Description: To release the Profile in order to allow the subscriber to start the download and installation procedure after the Operator performs any relevant operation on its back-end.

Method	Path	Status Code
POST	{rootPath}/gsma/rsp2/es2plus/releaseProfile	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID
header	Object	M	<p>Request header defined in SGP specification, including:</p> <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier

Domain	Type	MOC	Description
functionRequesterId entifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "releaseProfile".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● Message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code

message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "1a55ad41-95d3-4487-a6cf-d11bec3fce1a",
    "functionCallIdentifier": "releaseProfile"
  },
  "iccid": "31231231231231235108"
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.5",
        "message": "Download Order Not Exist",
        "subjectIdentifier": "Download Order"
      }
    }
  }
}
```

5.1.5 HandleDownloadProgressInfo

Description: To notify the Operator of the progress of a pending Profile download.

Method	Path	Status Code
POST	{MNRRootPath}/gsma/rsp2/es2plus/handleDownloadProgressInfo	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID
eid	String	C	EID
profileType	String	M	Profile type name
matchingId	String	C	Unique identifier of the order, can be generated by the caller. If the caller does not generate, the RSP platform will generate it automatically.
clientIp	String	C	Device IP address
timestamp	DateTime	M	Request execution time, in the following format: yyyy-MM-dd'T'HH:mm:ssZ
notificationPointId	Integer	M	Notifications, including: <ul style="list-style-type: none"> • 1: ELIGIBILITY_AND_RETRY_LIMIT_CHECK • 2: CONFIRMATION_FAILURE • 3: BPP_DOWNLOAD • 4: BPP_INSTALL_NOTIFICATION • 5: DELETE_NOTIFICATION • 6: ENABLE_NOTIFICATION • 7: DISABLE_NOTIFICATION • 8: DOWNLOAD_SUCCESS_LIMIT_CHECK • 101: EID_IS_BLOCKED • 102: TAC_IS_BLOCKED
deviceModel	String	C	Model of the device
imei	String	C	IMEI of the device
tac	String	C	TAC of the device

deviceName	String	C	Name of the device
deviceBrand	String	C	Brand of the device
seqNumber	Integer	C	Sequential number of the notification
notificationPointStatus	ExecutionStatus	M	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● StatusCodeData
Domain	Type	MOC	Description
status	String	M	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	C	Format defined in the SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● Message● subjectIdentifier
Domain	Type	MOC	Description
subjectCode	String	M	Subject code
reasonCode	String	M	Reason code
message	String	C	Detailed information of the error
subjectIdentifier	String	C	Subject identifier
resultData	String	C	Final Profile installation result returned from eUICC
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">● functionRequesterIdentifier● functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32

			characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "HandleDownloadProgressInfo".

Example Request Body

```
{  
  "eid": "89149032010001000001167454951944",  
  "iccId": "99889768546546146859",  
  "matchingId": "1EB3124B9E278B3A1D3952A89B118EA8",  
  "profileType": "test_1",  
  "timestamp": "2025-08-01T03:54:26",  
  "notificationPointId": 4,  
  "notificationPointStatus": {  
    "status": "Executed-Success"  
  },  
  "header": {  
    "functionRequesterIdentifier": "990077DB-558C-5274-2815-4A60A94F7B05",  
    "functionCallIdentifier": "handleDownloadProgressInfo"  
  },  
  "clientip": "10.18.2.151",  
  "seqNumber": 51,  
  "imei": "354472231119115F",  
  "tac": "35447223",  
  "deviceModel": "A1111",  
  "deviceName": "iPhone 11 Pro",  
  "deviceBrand": "Apple"  
}
```

Response Parameters

Successful responses include the following :

- HTTP status code "200"
- HTTP status code "204"

5.2 Extended ES2+ API

5.2.1 Profile Management

5.2.1.1 AddProfile1

Description: To add a Profile to the RSP platform. If the Profile type is not present, the Operator's default Profile type will be used.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/addByUpp	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the new Profile
imsi	String	M	IMSI
encAesKey	String	M	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.
encUpp	String	M	UPP encrypted with AES-256 key and encoded in Base64 format
profileType	String	O	Profile type that the new Profile belongs to. The type can be retrieved from the RSP platform management portal. The default Profile type will be used if not defined.
serviceProviderName	String	O	Service provider name. The value is prioritized for use in the StoreMetadataRequest during profile download.
profileName	String	O	Profile name. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in the StoreMetadataRequest during profile download.

gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
mncLen	Integer	O	MNC length. The value includes: <ul style="list-style-type: none"> • 2 • 3
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none"> • functionRequesterIdentifier • functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addByUpp".

Response Parameters

Name	Type	Description
iccid	String	ICCID of the added Profile
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description

status	String	Execution result, including: <ul style="list-style-type: none">• Executed-Success• Failed• Executed-WithWarning• Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">• subjectCode• reasonCode• message• subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "89861122253992533702",
  "imsi": "4600000000000001",
  "encAesKey":
    "cQF13/6ZFO4ySHOaptYfJDCmBvfIE2IdIOLpXdKRxrPvA8X4VDIPuDfUxv8p/vMnDI4E6EyVWDG9k0OyPZ2KKdf83lyagva98kE50v
    X7CqApajHB1eCNjJ3ssUaN5BxgnGXCo/+Nmfhiku75qrCaKHc2tvRiceopE2lvahogJFApCABYIE55CD8FflmBCjEWQcooNDgLsxt07
    DY1xlt79xvEpTaYZXeOevaziLQDXii7ls3KWGWVVUS24i7Fgrm/2qknoOGR3ij+QnxuLTbpisl02/A0hBrONzCIM1Rr2RD4jnajzFHn4
    Tvv97pzRjk4ewfIq/khjdE1r8V1g==",
  "encUpp":
    "EaxgvMVKks07u3oXkA+8HrHyE6mtP0Yxv3NuE0wQ/1fIS7OWE9BXkSxsGzUvvmufHOeU5ToSKrtALXqelcYRBWA/Uda+55fLTxNy
    YkaAwk4yNVcykuAvG+Q29w50Wz6K6kpARXcesY4JGS+u2aWxjGDHj6/dUCIkysvRCT0UgBphzv8t8ljKX6Rnp2IvAZX5JS0xdJCyxLjj1
    1y0V4gIQZo3V8q+LrLboHqXsAcEh1qKmbLC7BqjvKTSnWBc+Ghhj2lyQxBwR5otIKMPICV25NcP7VJM4Th85pNcKSI8IKpMz2uMvf
    7M3SEclOLgObfms7jd9F+o91EnMhyVNjf6Olxxlre2OR64OdIPtJ1fP+sVUro0sByTlwTFC6+NcWmkCx4MYTvq2hlanOqJk983UR8
    euj3xnd/VUVogixNYB8DHWCs1wobR4n1jZEAPtqg8k8UEPKxABAVr4u3mb7U3oEe+QvvkViyi+rRi0xBBjz30fAm8UzA5JNfTkQc64
    GL13o7rNXts6wOKk+OK9DlbES+H7aLKpxFCfvfNNPtOFTHlcKbl1r6mIKS+bf+Bea7cdSaEhtUBeS/lkpLDVC6sNG600OLZUZkyhQ9
    dqT1vev7VfePjOO6owkK3dQcDuT5KA56wQeTA+YRt/c2J0IVjw40DxExmnx2+2HcWExyy1quPOZM6BRCU5TQOpqJoyLDcZn+RV
    WgS9Q0Fr2BLiSxWG9v1nrP7LpjxK713B1C70nVhXM3cyq2wyK0t64T0yBbXjZEJS8ylzmCNY4sEqIVs7s26LPdnj8LR6J9fPrpHRxo+E
    eKOLeF+kv87EPzz+PUddJx8lGkdy/mxKV4QHACZRUSUsCZfoVNzhRzBOYq7EPCCs22pipTmZ21C3lV94vZ3MZDyrgpyCa7cYP5kxrW
    kx20FLk+mFLkwE8lotiNr5dsfPv+kz0enAQ4i9R6V5iTajB5vFpPqARo6/RQbtPOFgXyUS/506B2QP1cdP0EahHgrTry9Ue3Eg4vsii8Y
    wvAURPTSDgdL60ivaR/Hg8RhV37DY3+RLSk4YekEGWAooKmv+VuSJ/4eYNrqPZfbYM4DUlAV1bLUR2xQ7oNpiefCaOoKAQ1L12Rui
    /sq92217DsREmv/z26DfvDTQqlW73mCdjF/385JTHXVL0HMVsnyuk1au7uXPwVQWBKHz/EiOkwgptD/lxgCi5igGamfbW0WtZ1rvz
    GpAmZloQrlMXE4U6iXKwbnN0QJS6qqeY2poC+ZJHzxltAGEr84ID8XtnZ9jj81tDjzsvwrujcPjTxNsIS0jQ9yvYCVlzMamyBO6AxsJS94
```

```

elgR4Bf7LAXUSYBw06iy3QbNbVGZja+0oXVkrh8/S3eeDykeJcOO8t12J/8g1lgI5ntooNFSIlyfkYMedzajdiMv68e1H9s2DJF8OQlrii6
H+TIV8kBHTJANXIP/y44IR50ynnDKCMle7Lti8U2Bs6W7XNpbw2YLCHBQKZEu201TY+VtvMJ/ghh1zlkc50ZDiuj0j8k0RDdxUIPvV4u
8rvSSG1uj4BcHeWW22Hd1BLjmeukPaRC6wKBXhSzVAuvl6LowwbBS71Jzf2QXPZ53qbALTdc5aaBMoMLQPG59NR9WHWu2w63
J9WfGh1v6t6tdV9I+RJ0OVgOO6aSqQ07b5+/PdVbt9uNrhdCdOA2xrngSd6wDrO1zWlzNPnqJtqoSzmz0/4skuZZJUDxUpQ3rhEcm
UfdgnmBUU1BF1mAvBwKeh5rZ+e45xJT6lgXLZ3sPmxas3JSgwfv2PQ1BrP4vdXopmAf5IFwiBvE/uLUDzb44PZmWfQTSQRy3rSak
YHho7G5NG5VngCWNUXWtFY4DbjWU0oNaCTP340mruijXvDitHkSXZU6QTJH+Ki2ca8206NiYpa5wDBbtkNHo1O5+MvbwSo64D
/2P4FvXh5/AnUMP3JePpYjbVVODIUr6GFylVNqBxwQc+iz/Qh+XOrH9KhSGIO+u1PbD81gDTu+zAUNt/V9xNNpFZKPlqr19vNt3u68
TauShSEymTZXOmG07zb9h5xxnC81aLYU9sLDTWFep5llUEqJUlwQsMLGCh8MAS9MoqRp7Q5/r3nlBiBsCTpZsSDbQsbLc+kY8XAm
nyC08QBjzBhbh9KB0xtSzQ6fRW8OQz3v7aAz06DqEG3txsu66vP+t7LegYxrWdoOC5tMXLYFvse88NyBntm7BjsQBNs4Uwiz9Ms1
5x2tyNcVWwpDLMMz1v+9XmekHgtGNNh947SGbxatbIONIXLQffAezLT1Cerh7bCGwQ4HfZKF3U00tPxXtm+tLiiKNjsfwebqvU70x2
W0csVcAAIRf3faLoNCEFcY0VPPVm1a2FdSyHpid2wERO/cblhLLHg/ENjS6Z+c3gcumVMBI/lsIVQYqsmWLTFQ84rzpGygUWnG9pF
LdEo5OAOiaHJCXPO/jc3GPhH3yE8b7Mo09dOhmwOUNr7ff8QJr1EavfAq5DQXhWNU6EdqCB96Yj/+NpvllJhZB9kSz3qlJm5o4l/
FlzIRZcoUboGi0yRnP1hXxv+vNZSxFiquomoqtPvmanZhU8lbrU7Cerfml9PqJDKIK2BjV9gBlnKm3NulPRmdVgm4Xamnhkk8h+UO7
cfdbDt/dHwBAUojpcL2pNW2YQKHc8BT8ANO1Z1Ao31rQv9yg2e/D8MLyBWcZxKKOqu279b2B75ob2ZWfzaf1phZNseMFNa
HA7w1+ZXouu1J6N4txYf6FDWTwR4JDHqyfWIIQ8ab3Hcz0Sm65ltAzEZiEqZN49eopdkKW7zLrVUomYyXU8RjaCAipMom7834g
KcyHrB/5g6HYDKTLiK4Zo23BKYfkQqQlJhsnr30ngKhueY5Y0hUSJzcGr5ettOjjw0zc07m+ssNU8AwfcpyFxCSn7Dg5FikUvG04UjoBgT
IWiwqMfwdg8DbCstEp6EX5mCldKrFKmeX749522U30IGvGzDti7k",
    "profileType": "Test",
    "header": {
        "functionRequesterIdentifier": "6a6d00b6-cb61-4da8-a849-4648a7046ca7",
        "functionCallIdentifier": "addByUpp"
    }
}

```

Example Successful Response Body

```
{
    "header": {
        "functionExecutionStatus": {
            "status": "Executed-Success"
        }
    },
    "iccid": "89861122253992533702"
}
```

Example Failed Response Body

```
{
    "header": {
        "functionExecutionStatus": {
            "status": "Failed",
            "statusCodeData": {
                "subjectCode": "8.2.1",
                "reasonCode": "3.3",
                "message": "ICCID [89861122253992533702] already existsById",
                "subjectIdentifier": null
            }
        }
    }
}
```

```

    }
}
}
```

5.2.1.2 AddProfile2

Description: To add a Profile to the RSP platform. If the Profile type is not specified, the Operator's default Profile type will be used.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/addByMeta	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the new Profile
imsi	String	M	The plaintext IMSI must be converted to bytes, encrypted with AesKey, then encoded in HEX format.
ki	String	M	The HEX-encoded KI plaintext must be decoded and converted to bytes, encrypted with AesKey, then encoded in HEX format.
opc	String	M	The HEX-encoded OPC plaintext must be decoded and converted to bytes, encrypted with AesKey, then encoded in HEX format.
pin1	String	O	Personal Identification Number 1
pin2	String	O	Personal Identification Number 2
puk1	String	O	PIN Unblocking Key 1
puk2	String	O	PIN Unblocking Key 2
adm1	String	O	Administrative Key 1
msisdn	String	O	MSISDN of the Profile, must be encoded in UTF-8 format
impi	String	O	An ISIM application authentication parameter,

			required for ISIM Profile generation
impuList	List<String>	O	An ISIM application authentication parameter, required for ISIM Profile generation
c9	String	O	A parameter for Profile applet generation
ara	String	O	A parameter for APP signature configuration
serviceProviderName	String	O	Specifies SPN (Service Provider Name) value
pnn	String	O	Specifies PNN value
profileName	String	O	Profile name. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
hplmnRatList	List<PlmnRat>	O	List of HPLMN
ehplmnList	List<PlmnParam>	O	List of EHPLMN
fplmnList	List<PlmnParam>	O	List of FPLMN
oplmnRatList	List<PlmnRat>	O	List of OPLMN
fileManagementCMD	String	O	File management CMD value in Hex string
smsp	String	O	Specifies SMSP value
profileType	Integer	O	Profile type that the new Profile belongs to, which can be obtained from the RSP platform. The default Profile type will be used if not defined.
encAesKey	String	M	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format
header	Object	M	Request header defined by SGP specification, including: <ul style="list-style-type: none">• FunctionRequesterIdentifier• functionCallIdentifier

Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addByMeta".

Response Parameters

Name	Type	Description
iccid	String	ICCID of the new Profile
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code

reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "8997266961399036111",
  "imsi": "B413BB50E4041E8596BF6475856B900B",
  "ki": "2A57928AD50E773F1E88C9776F41A5987ADE38C71E1DD199316C6B6F47C6EB76",
  "opc": "17383ACF86AEDD0A17D909843D0F0A0D22519FBE336A9FD6503B8AA35A18EB14",
  "encAesKey": "AeGM8/uguYHS+B+n5GO0WbUM+WJfwN6IGJLezoF+RM9NMzJiQT6VUjPKbfFGdFi2wTETyQeEP2ojGODXeW/Pv3H+2bynAwgP9f5lFqfZ1/TaOxnEX3v74539u5BERiP8yOiqPXhOCwROifPfhcZqNJU1ETINOSZ4H5BlsR/qZ3YFqEPhKWNzcilol2j15f3SGfkO9UzSLB68hf7dww1UAMNuxQGxMJ+tfdmqeGMtcJee6On+AwjP8bgxN8e66xv7ckLDZWnsNeRDPB/qjYEeqSQn7XJwh3BTfa9BfNzF2Nq0e5ZKL2eSNKk0gtMBxOdSGRgSq1cLpfGaeGLjLYS6fA==",
  "profileType": "TEST",
  "header": {
    "functionRequesterIdentifier": "9afa3c20-0224-4712-bf7f-178ff9afa030",
    "functionCallIdentifier": "addByMeta"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "8997266961399036111"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.5",
        "subjectMessage": "Subject specific error message"
      }
    }
  }
}
```

```
        "reasonCode": "3.7",
        "message": "ProfileType [TEST1] not found in the database",
        "subjectIdentifier": null
    }
}
}
}
```

5.2.1.3 AddProfileByUPPParams

Description: To add a Profile to the RSP platform, the Profile type must be created using the UPP template. The user should input the required parameters in the Profile template.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/addByUppParams	200

Request Parameters

Name	Type	MOC	Description
paramKeyValueList	List<ParamKeyValue>	M	<p>Parameters key-value of the Profile to be imported, wherein ICCID, IMSI, KI and OPC are mandatory. The IMSI must be provided in HEX format as eflIMSI.</p> <p>The KI and OPC must be encrypted using the TransportKey associated with the k4Name or the AES Key used to generate the encAesKey.</p>
k4Name	String	C	Transport key name used for parameters KI and OPC encryption
encAesKey	String	C	<p>AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.</p> <p>If the parameters KI and OPC are encrypted with k4Name, this parameter is not required.</p> <p>Either k4Name or encAesKey must be contained. If both are input, k4Name takes</p>

			precedence.
profileType	String	M	Name of Profile type created by UPP template
serviceProviderName	String	O	Service provider name. The value is prioritized for use in StoreMetadataRequest during profile download.
profileName	String	O	Profile name. The value is prioritized for use in StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addProfileByUppParams".
ParamKeyValue Domain	Type	MOC	Description
paramKey	String	M	Parameter name in the UPP template

paramValue	String	M	Parameter value in the UPP template, wherein KI and OPC must be encrypted.
------------	--------	---	----------------------------------------------------------------------------

Response Parameters

Name	Type	Description
iccid	String	ICCID of the added Profile
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

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```
{
  "paramKeyValueList": [
    {
      "paramKey": "ICCID",
      "paramValue": "7777777777777773f"
    },
    {
      "paramKey": "KI",
      "paramValue": "AABBCCDDEFF1122AABBCCDDEFF1122AABBCCDDEFF1122AABBCCDDEFF1122"
    },
    {
      "paramKey": "OPC",
      "paramValue": "AABBCCDDEFF1122AABBCCDDEFF1122AABBCCDDEFF1122AABBCCDDEFF1122"
    },
    {
      "paramKey": "IMSI",
      "paramValue": "9519999999999999"
    }
  ],
  "k4Name": "k4test",
  "profileType": "test",
  "header": {
    "functionRequesterIdentifier": "amsdlpfmpasfpamsmf",
    "functionCallIdentifier": "addProfileByUppParams"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "7777777777777773f"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "2.1",
        "description": "The requested operation failed due to an internal server error. Please try again later."
      }
    }
  }
}
```

```
        "message": "iccid already exists",
        "subjectIdentifier": null
    }
}
}
}
```

5.2.1.4 UpdateProfileByUPPParams

Description: To update the parameters of a Profile in the RSP platform, the Profile type must be created using UPP template. The user should input the required parameters in the Profile template.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/updateByUppParams	200

Request Parameters

Name	Type	MOC	Description
paramKeyValueList	List<ParamKeyValue>	M	<p>Parameters key-value for import, wherein ICCID, IMSI, KI and OPC are mandatory. The IMSI must be provided in HEX format as eIMSI.</p> <p>The KI and OPC must be encrypted using the TransportKey associated with the k4Name or the AES Key used to generate the encAesKey.</p>
k4Name	String	C	Name of transport key used for KI and OPC encryption
encAesKey	String	C	<p>AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.</p> <p>If the parameters KI and OPC are encrypted with k4Name, it is not required.</p> <p>Either k4Name and encAesKey must be contained. If both are input, k4Name takes precedence.</p>
header	Object	M	Request header defined in SGP specification, including:

			<ul style="list-style-type: none"> • functionRequesterIdentifier • functionCallIdentifier
serviceProviderName	String	O	Service provider name. The value is prioritized for use in StoreMetadataRequest during Profile download.
profileName	String	O	Profile name. The value is prioritized for use in StoreMetadataRequest during Profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateProfileByUppParams".
ParamKeyValue Domain	Type	MOC	Description
paramKey	String	M	Parameter name in the UPP template
paramValue	String	M	Parameter value in the UPP template, wherein KI and OPC must be encrypted.

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including

		functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in the SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{  
  "paramKeyValueList": [  
    {  
      "paramKey": "ICCID",  
      "paramValue": "77777777777777773f"  
    },  
    {  
      "paramKey": "KI",  
      "paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"  
    },  
    {  
      "paramKey": "OPC",  
      "paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"  
    }  
  ]  
}
```

```
"paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"
},
{
  "paramKey": "IMSI",
  "paramValue": "9519999999999999"
}
],
"k4Name": "k4test",
"profileType": "test",
"header": {
  "functionRequesterIdentifier": "sfkemohgomsdmasmf",
  "functionCallIdentifier": "updateProfileByUppParams"
}
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "77777777777777773f"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.9",
        "message": "iccid not found",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.1.5 DeleteProfile

Description: To delete a Profile from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/deleteProfile	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile requires deletion
force	Boolean	C	<p>Specifies whether to delete the Profile forcefully</p> <p>NOTE: Deleting a Profile in use may cause data inconsistency between the RSP platform and the Profile installed on the device. If the user must delete the Profile, this parameter can be set to 'True'.</p> <p>The status of a Profile that is in use includes: "Allocated", "Linked", "Confirmed", "Released", "Downloaded", "Installed", "Disabled", and "Enabled".</p>
header	Object	M	<p>Request header defined in SGP specification, including:</p> <ul style="list-style-type: none"> • functionRequesterIdentifier • functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "deleteProfile".

Response Parameters

Name	Type	Description
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iccid	String	ICCID of the Profile to be deleted
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "8986043999300846115f",
  "force": true,
  "header": {
    "functionRequesterIdentifier": "3b7fdfe0-e31d-460e-950c-83a9e18dc7c6",
    "functionCallIdentifier": "deleteProfile"
  }
}
```

{}

Example Successful Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  },  
  "iccid": "8986043999300846115f"  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "8.2",  
        "reasonCode": "3.8",  
        "message": "Failed to delete the profile by ICCID [8986043999300846115f]",  
        "subjectIdentifier": null  
      }  
    }  
  }  
}
```

5.2.1.6 GetProfileInfo

Description: To query the information of a Profile from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/info	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of Profile
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "profileInfo".

Response Parameters

Name	Type	Description
iccid	String	ICCID of the Profile
state	String	Current Profile status, including: <ul style="list-style-type: none">• AVAILABLE• ALLOCATED• LINKED• CONFIRMED• RELEASED• DOWNLOADED• INSTALLED• ERROR• ENABLED• DISABLED• DELETED• UNAVAILABLE
createdTime	String	Profile import time on RSP platform
lastModified	String	Last modification time of Profile on RSP platform
mnoid	Integer	ID of Operator that the Profile belongs to

mccmnc	String	MCCMNC of Profile
profileTypeName	String	Profile type name
profileClass	String	Profile class, including: <ul style="list-style-type: none">• TEST• PROVISIONING• OPERATIONAL
prp	Integer	Profile redownload policy [0,5], described in Chapter III Basic Rules.
associatedEid	String	Associated EID. If the Profile is linked with an EID and the order is not deleted, the linked EID will be returned. If the Profile Class is test, this parameter will not be returned.
smdpOid	String	OID of the RSP platform
activationCode	String	AC generated for the Profile. It will be returned only when an AC is generated and is valid. If the Profile Class is test, this parameter will not be returned.
orderType	String	Order type, including: <ul style="list-style-type: none">• AC_MODE• DEFAULT_AC_MODE• DS_MODE• CAMPAIGN_MODE• PRE_OCCUPY_MODE
smdpAddress	String	RSP platform address
maxDownloadTime	Integer	Number of maximum downloads
maxCCTime	Integer	Number of maximum confirmation code inputs
maxDownloadSuccessTime	Integer	Number of maximum successful Profile downloads
ppr	String	Profile policy rule
notificationEvent	List<String>	Enabled event notification type, including: <ul style="list-style-type: none">• Install• Delete• Enable• Disable

group	String	Group name
operator	String	Operator name
msisdn	String	MSISDN
serviceProvicerName	String	SPN
ara	String	ARA
pin1	String	PIN1
pin2	String	PIN2
puk1	String	PUK1
puk2	String	PUK2
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code

message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "8999699921512345666f",
  "header": {
    "functionRequesterIdentifier": "514a5f1c-58b2-4b06-a370-7ac48bc26cf",
    "functionCallIdentifier": "profileInfo"
  }
}
```

Example Successful Response Body

```
{
  "iccid": "8999699921512345666f",
  "state": "INSTALLED",
  "createdTime": "2024-01-19 11:04:23",
  "lastModified": "2024-01-19 11:05:58",
  "mnoid": 1,
  "mccmnc": "22899",
  "profileTypeName": "TYPE1",
  "profileClass": "OPERATIONAL",
  "associatedEid": "89666662000001000000167454952138",
  "activationCode": "$smdp-core.redteatest.com$859B761ED0B3337455CBCF1ED75820FF",
  "smdpOid": "1.3.6.1.4.1.50791.2",
  "smdpAddress": "smdp-core.redteatest.com",
  "maxDownloadTime": 100,
  "maxCCTime": 100,
  "maxDownloadSuccessTime": 100,
  "ppr": "000",
  "notificationEvent": [
    "install",
    "enable",
    "disable",
    "delete"
  ],
  "prp": 5,
  "operator": "group1",
  "group": "group11",
  "msisdn": "",
  "serviceProviderName": "qqq",
  "ara": "",
  "pin1": "1816",
  "pin2": "2902",
  "puk1": "90168292",
  "puk2": "90168292"
}
```

```
"puk2": "68760080",
"header": {
  "functionExecutionStatus": {
    "status": "Executed-Success"
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.7",
        "message": "ICCID [89852000261093878555] not found in the database",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.1.7 UpdateProfileParam

Description: To update the parameter (such as MSISDN, not including ICCID) of a Profile on the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/updateParam	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile that requires update
paramKeyValueList	List<ParamKeyVal ue>	M	Parameter key-value that requires update

encAesKey	String	O	<p>AES-256 Key generated by the Operator's system, encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.</p> <p>When updating the parameters KI and OPC, their values must be encrypted with the AES key.</p>
header	Object	M	<p>Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.</p>
ParamKeyValue Domain	Type	MOC	Description
paramKey	String	M	<p>Specifies the names of Profile parameters that require updates.</p> <p>The parameters of Profiles imported by UPP that can be updated include:</p> <ul style="list-style-type: none"> ● msisdn <p>The parameters of Profiles imported by metadata that can be updated include:</p> <ul style="list-style-type: none"> ● msisdn ● imsi ● ki ● opc ● pin1 ● pin2 ● puk1 ● puk2 ● adm1 ● impi ● impu ● C9 ● serviceProviderName ● hplmnRatList ● ehplmnList ● fplmnList ● oplmnRatList ● gid1 ● gid2 ● profileName
paramValue	String	M	<p>Values of Profile parameters that require update, wherein the values of KI and OPC must be encrypted with AES key.</p>
Header Domain	Type	MOC	Description

functionRequesterId entifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateParam".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error

subjectIdentifier	String	Subject identifier
-------------------	--------	--------------------

Example Request Body

```
{
  "iccid": "8999999938265938875f",
  "paramKeyValueList": [
    {
      "paramKey": "msisdn",
      "paramValue": "2345678942427"
    }
  ],
  "encAesKey": "PhITtzxpHE9E0bDk9kyd+9w/zTzEfGYTst341Jiy8sTJzkpK8wvhn3e5HQRkp2IkkASKLrkabRwGb4yFNvk8HOF33EihJKAnug19Rcbx2zp1paVIPkWGJcVHiGFF1I0YOd/HjRP+DqKNH77dlWCaKguahni+bsFCyhYnLCEQGWXB56vLXdOOF8GOJFsWA99cm5oWruwlyujgGiQ+n5DFVwkWZGGaiwmz5gdSvKzk+V7vSI1GApnqjlEtBjCvY6KJpdRU1WmXzMW6DOYLG1hTcoNPbl/b6uza5TKctk7gEN/e3LgJFa4TiYiHGqguYX931umzs0/44dufysFbpo8CA==",
  "header": {
    "functionRequesterIdentifier": "a0b69276-4331-4fdf-b64b-b20ddde721e2",
    "functionCallIdentifier": "updateParam"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.9",
        "message": "Unknown",
        "subjectIdentifier": "Profile ICCID"
      }
    }
  }
}
```

```

    }
}
}
```

5.2.1.8 GetProfileStateStatistics

Description: To obtain statistics of Profiles with a specific status from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/getProfileStateStatistics	200

Request Parameters

Name	Type	MOC	Description
profileType	String	O	Name of Profile type
state	String	O	Profile status (optional), including: <ul style="list-style-type: none"> ● AVAILABLE ● ALLOCATED ● LINKED ● CONFIRMED ● RELEASED ● DOWNLOADED ● INSTALLED ● ERROR ● ENABLED ● DISABLED ● UNAVAILABLE
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none"> ● functionRequesterIdentifier ● functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.

functionCallIdentifier	String	M	Interface identifier, with a fixed value of "getProfileStateStatistics".
------------------------	--------	---	--------------------------------------------------------------------------

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
profileType	String	Name of Profile type (null if not included in the request parameters)
total	long	Total count of Profiles that meet the retrieval conditions
statistics	List<ProfileStateStatistics>	Profile state statistics
ProfileStateStatistics Domain	Type	Description
state	String	Status
count	integer	Count
Header Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier

StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{  
  "header": {  
    "functionRequesterIdentifier": "ad4a4873-8e3a-4480-9afe-fecdbeba59ae",  
    "functionCallIdentifier": "getProfileStateStatistics"  
  }  
}
```

Example Successful Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  },  
  "profileType": null,  
  "total": 21,  
  "statistics": [  
    {"state": "AVAILABLE", "count": 20},  
    {"state": "ERROR", "count": 1}  
  ]  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "8.2.5",  
        "reasonCode": "2.1",  
        "message": "Function execution failed due to internal server error."  
      }  
    }  
  }  
}
```

```
        "message": "Profile type name is invalid",
        "subjectIdentifier": "Profile type"
    }
}
}
}
```

5.2.1.9 UpdateByUPP

Description: To update the parameter of a Profile in the RSP platform. The Profile must be added using addByUpp.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/updateByUpp	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile that requires update
imsi	String	M	IMSI
encAesKey	String	M	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.
encUpp	String	M	UPP encrypted with AES-256 key and encoded in Base64 format
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
serviceProviderName	String	O	Service provider name. The value is prioritized for use in the StoreMetadataRequest during profile download.
profileName	String	O	Profile name. The value is prioritized for use in the StoreMetadataRequest during profile download.

gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
Domain	Type	MOC	Description
functionRequesterId entifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateByUpp".

Response Parameters

Name	Type	Description
iccld	String	ICCID of the Profile requires update
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Item Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired

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statusCodeData	StatusCodes	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "14380f15-ee8d-4125-8052-7d9b52e756e0",
    "functionCallIdentifier": "updateByUpp"
  },
  "iccid": "98984984654654666",
  "imsi": "88999134231421",
  "encUpp": "0tZeXUoZPvpyEwG9Nscjc4NrIuNMgHG0mk2SIUkTzhWdOMbbmHHNEcCM3oiBxJtxm2cdDeto+bfKcU+TrbIAUerCtt44DHR67
HAGNhGICNLGOARe+5NtluZHq3rVgLyFWdcghbE6mGNyNxAmzo7QCE/frs6ZUQpRmXtmSaj+EzCDjLts8xKbwdfAGPlIdMu/tU
9shTDixA5TJH67lPaun+iDgsTCn4/TgPr5SvmIIY2xKqW5Avff2rrqUhmNkGuemvUrxd0uT70HS5ZZPMp31i9ZgpqfkQfFRTL2dtper+
hjlimqXL37fKNqwuH32WI0yBSDLPdrbT2bb7B0zrwq7CioOfpEhCwe3cWnd5F+jkjkH16mKQZSt5siVodD8uUyqQgulqcloCkh+i
ySgf7Q67mWMigwCogUwAsfutppTpVdAwvXMwTpCOxy2KJCznDGs569NL5+OvOpRK1cuLmL0FuvMSH9oBjCP80gH4sAX3w9B
XkG3dZry1iRS3fNPb5Ofdr85e+w2uskbvOYiMob5FtD/rBDHNoNR3awZnj6A7tff7ROdE6EGyNG9yosTj5BK8hYkDPEzcEHxb+6Y
xDOD9Ukn4VpHVlWcf2lvYd2Cfzs+/Sx1uHybf67nkCdt7JNutmffXQpwhvozcTZpwLfAQyrVCFrpydFXONMnw0JcD6GFn8xjrbdf
RwLvk77MHXcUW3Lliq5C8ANUvk3HFJCCfnT8IFHkYWZuoHhAEhSZumQuR3vUn5mN475kPn65Npy0Blg8xBxI30y/V1B/rDHR
LjNncjoT9F91ovfx02X9XddOgB1cMTjr7rfHxwpZHCiegMG6QTaqlMPzvi2y2grTEks50ey1W7e/eAxhwm/F78kztoDSW2gtv6
Mt3zERYgWP/6g3iGGWeaulio1oLjaOzrv4NvQhB5xOB55agu1OCg1BuG9Z//v+Kq1i9rO3/8NOxJCLIUlnl2tRM1Kljyr4QX1B32q2
JfmVYLezHdoIRiUqYz/Ig3bDc/CXUWyMjsHiNNmaIBSKx319Fry3uma7glaAAAnKdz2MDeHiPee5hvbkLC3bvz0A/80L3fiSi7T5
7ufiOyLsCJr9AjKqHQdWT9PuzKbJkw9TLw6WKSfXD3lurlPNXE5ieUghKnG8MQmfBll+fezTQuCn/PXiMy98fm6jk9DLq/BL4h1
iugPgvOdQaMI6/k0xTTju2KDnGE5aObj9qKKDvCl0qeVI6+klrVgXRdbD3KVwyg89P7aSB1EPIS9umJ665CGRrZRKQlxCrMLZJipoC
km8vB6CERid6pD33lqzwPOjirnv4YnAAQ6Rqqxocwy8oMe9+gphT8eNjeCWzsGNornkUSYYBvci+eel6bUmU7PAiliWP59caUp4kz
06XEXOsrtvliiWXOxcywXv2miPQu/09DuJQXLNhSZW5rDpYJA7YDSsf2dqHchX0h3UzhfGxNGSquzldjUDzI52PoxZJAKhHKNubhW
4r+HCaGCMplihLRDysOrgtAbrzEVsz22KEt5JLKVP1WdPDau9F4/5Yh7H7cleY2OboAZO/1FKXX5CvwQldk5C0fwuJoj/leqPLfp4IGel
Kq1d+IX2557vLIvtB7Bv975KpykltavyBPuZ12OHe/ovdP9kovF2e0Au/XAaVxnLpV7NgiEnwZLe/f1Zw2urVjbx1eCc3XMIb94Ilj+IS
MRMi6vA88zpqwm6rZDr6/j5XWOly/05yfJ4BCCSam87jWT0LSAVwm11ZXP9pq+YjzzBMaC7koyGpTh9w2mC4cvu5STLWEi
219Q7G9JWRIMElieqsINcWeIN4tnQDHGk0gbpQ8LWDcXn1wdklNak6NzfgAC57N5ffJ64pvoTzOf9b3YSA/FzxyQ21+mOhQ33M
Whvy+38Tz/cdH6PqRBqRTR+acAuRmXnAEtVGxbPxTeQWYelGhGrdUP7GXb1NUdLjz8yPyoSOE+4jJLX+rjZNe66GQjihbftkZCF2
3IBcVhs4wgJnR6i/KVtAhZPYs7aRj37vUtoF6hnBY5eZ8XCD/pcJwtkhw87CODOE1e0MlzuNSRZakcU2IIUsOXrTGtAMTGP/Ffnfm+
O/2mjw44ATSFHGL1v8owEOAlux74HVyEWFZe1LoSOqw2gev/WSD3DwM8//az1meLwZlQTZKBjDb7PhmYFP2jO0LBQivaQEkg6
```

```

5FfqUfTz1lZRapV3EBczj0gOc+HtccLnos4yrikFcIX/kqp9Agla/ax5Fp/nh+iLOL6RPM0ODLxWISiQinv/GYoKDwyDLKLi9X0dvz35iRU
3mdMqrKEEnqQlzf5BU/IDk5HIW7x5vIvS5EIR4J0uoZ4iFgniTjaP7bqlXdr3ldk+DsR0Cm/qvyuZljZAWwe3QKwYpmUzDv6vZ6xQNG
DRneYJwtVqAkzw+7MQX/PYttZ1xMTihHhK4Xko5YyzlCo4FbtP2n0NIBKpw4kLCdaBqokQb6anGzb81C3UdIR24XqT6as/DzofRTp/
LT1SB/7SLIjjO2B+OWogxE4g6zDhzRZTsgpFeIK2etZQP2W1DSLLaU3vHha8L80vCMHgxXOIDxs5jBobd6e7RnzQhPASalCZjPRHa
BsDSglAfY3KMhuCs100Zcnpnrb+Dx/tLg2vcTiUsdUfBtUXLTE7y/lrQISi7Sz2vXGZ7koDiFw==",
"encAesKey":
"rU6nClQ20+1ZqxPalhMCzhhePNyrC8f0QC4ofVpEF9oEYG+IlvVQGzMbdXsZlZ72gfhGlsGjdVhrhsv/z8O1/KULNfzqglkMVHb2k
N/WYgvWyt4TqiYGwwSp5L7VzPtBC1vnS6FRZcMdvF3dqawK02qPUoMoTROWYM1gHD2bRQdyI/WgjmKQsNz97DQILYpsae4UK
OyRSezZ+JOy4Es/7rf8iBQc/aWbFYncDLMMI8veo3GCkdGANHVMqyo7txi6li1lpkiUtQLfdZh3etFsqtL70mmGiAL6IBgDq3zpLqYj
c8pXpz3y98u6SZWST7mJmu28FFndYpTQW3HNjZA=="
}

```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "98984984654654654666"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "9.1",
        "reasonCode": "2.1",
        "message": "encAesKey should be present",
        "subjectIdentifier": "9.1"
      }
    }
  }
}
```

5.2.1.10 GetProfileOTAKeys

Description: To retrieve the OTA keys of a specified Profile from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profile/otakeys	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile
otaTransportKey	String	O	OTA transport key name If provided, the OTA keys will be returned in an encrypted format; otherwise, they will be returned in plain text.
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "profileInfo".

Response Parameters

Name	Type	Description
iccid	String	ICCID of the Profile
otaTransportKey	String	OTA K4 utilized for encryption (might be unpopulated)
mnoParams	List<Object>	Refer to the information below.
scp81Params	Object	Refer to the information below.

header	Object	Response header defined in SGP specification, including functionExecutionStatus.
mnoParams Domain	Type	Description
enc	String	Hex string
mac	String	Hex string
dek	String	Hex string
type	String	AES / DES
keyVersion	Integer	1 - 20
scp81Params Domain	Type	Description
psk	String	Hex string
dek	String	Hex string
type	String	AES / DES
sdPersoData	String	Hex string
Header Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
ExecutionStatus Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
StatusCode Domain	Type	Description

subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Message

```
{
  "iccid": "98943302436723408068",
  "header": {
    "functionRequesterIdentifier": "7e2932c5-4803-49c3-b5fd-932b815f7c72",
    "functionCallIdentifier": "profileInfo"
  }
}
```

Example Successful Response Message

```
{
  "iccid": "98943302436723408068",
  "otaTransportKey": null,
  "mnoParams": [
    {
      "enc": "11223344556677889900AABBCCDDEEFF",
      "mac": "11223344556677889900AABBCCDDEEFF",
      "dek": "11223344556677889900AABBCCDDEEFF",
      "type": "DES",
      "keyVersion": 1,
      "complete": true
    }
  ],
  "scp81Param": null
}
```

Example Failed Response Message

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2",
        "reasonCode": "8.2.1"
      }
    }
  }
}
```

```
    "reasonCode": "3.8",
    "message": "Not suitable for UPP imported profile.",
    "subjectIdentifier": "89861124212030457221"
}
}
}
}
```



5.2.2 Profile Type Management

5.2.2.1 ListProfileTypes

Description: To request the RSP platform to return a list of all the created Profile types.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/list	200

Request Parameters

Name	Type	MOC	Description
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "listProfileType".

Response Parameters

Name	Type	Description
profileTypeList	List<Item>	List of profile types that are created by the Operator, including the following items: <ul style="list-style-type: none">• profileTypeName• defaultValue
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Item Domain	Type	Description

profileTypeName	String	Profile type name
defaultValue	boolean	Indicates whether it is the default Profile type specified by the Operator.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">• status• statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">• Executed-Success• Failed• Executed-WithWarning• Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">• subjectCode• reasonCode• message• subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "13380f15-ee8d-4125-8051-7d9b52e756e0",
    "functionCallIdentifier": "listProfileType"
  }
}
```

Example Successful Response Body

```
{
  "profileTypeList": [
    {
      "profileTypeName": "test",
      "defaultValue": true
    }
  ],
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "9.1",
        "reasonCode": "2.1",
        "message": "Unknown operator",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.2.2 GetProfileTypeInfo

Description: To query information of a Profile type from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/info	200

Request Parameters

Name	Type	MOC	Description
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profileTypeName	String	M	Name of the Profile type
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "profileTypeInfo".

Response Parameters

Name	Type	Description
profileTypeName	String	Profile type name
defaultType	boolean	Indicates whether it is the default Profile type specified by the Operator
ppr	String	Profile policy rules
profileClass	String	Profile class, including: <ul style="list-style-type: none">• TEST• PROVISIONING• OPERATIONAL
maxDownloadTime	Integer	Number of maximum downloads
maxCCTime	Integer	Number of maximum confirmation code inputs
maxDownloadSuccessTime	Integer	Number of maximum successful Profile downloads
notificationEvent	List<String>	Enabled event notification in the Profile type configurations, including: <ul style="list-style-type: none">• Install• Delete

		<ul style="list-style-type: none"> • Enable • Disable
ecallIndication	boolean	Indicates whether the Profiles within that Profile type are classified as emergency Profiles.
fallbackAllowed	boolean	Indicates whether Profiles within that Profile type are configured to support fallback.
createdTime	String	Creation time of profileType in RSP platform
lastModified	String	Last modification time of the profileType in RSP platform
prp	Integer	Profile redownload policy [0,5], described in Chapter III Basic Rules.
group	String	Group name
operator	String	Operator name
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description

subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "profileTypeName": "test",
  "header": {
    "functionRequesterIdentifier": "99d80e4b-5d77-4bb4-a06c-8b07b972d862",
    "functionCallIdentifier": "getProfileTypeInfo"
  }
}
```

Example Successful Response Body

```
{
  "profileTypeName": "180_1721097068753",
  "defaultType": false,
  "ppr": "000",
  "profileClass": "OPERATIONAL",
  "maxDownloadTime": 1,
  "maxCCTime": 100,
  "maxDownloadSuccessTime": 1,
  "notificationEvent": [
    "install",
    "enable",
    "disable",
    "delete"
  ],
  "createdTime": "2024-07-16 02:42:31",
  "lastModified": "2024-07-16 02:42:31",
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "ppr": 3,
  "group": "default_group_test",
  "operator": null,
  "ecallIndication": false,
  "fallbackAllowed": false
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.5",
        "reasonCode": "3.7",
        "message": "ProfileType [tes1t] not found in the database",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.2.3 AddProfileType

Description: To add a new Profile type to the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/add	200

Request Parameters

Name	Type	MOC	Description
name	String	M	Profile type name (^[0-9a-zA-Z_\\-\\.]{3,30}\$)
installNotificationSwitch	boolean	M	Specifies whether to turn on the INSTALL notification
enableNotificationSwitch	boolean	M	Specifies whether to turn on the ENABLE notification
disableNotificationSwitch	boolean	M	Specifies whether to turn on the DISABLE notification

deleteNotificationSwitch	boolean	M	Specifies whether to turn on the DELETE notification
ccRetryLimitExceededNotificationSwitch	boolean	O	Specifies whether to turn on the "Exceeding Confirmation Code Retry Limit" notification Defaults to 'True' if not configured
downloadRetryLimitExceededNotificationSwitch	boolean	O	Specifies whether to turn on the "Exceeding Download Retry Limit" notification Defaults to 'True' if not configured
maxDownloadAttempts	Integer	M	Number of maximum download attempts [1,100]
maxCCAttempts	Integer	M	Number of maximum confirmation code input attempts [1,100]
maxDownloadSuccessTimes	Integer	M	Number of maximum successful Profile downloads [1,100]
profilePolicyRules	String	M	Profile policy rules. A combination of 0 or 1, length is 3 digits. When the profileClass is TEST, the value is 000 by default. The value must be encrypted with KEK PK by RSA, then encoded in Base64 format.
profileClass	Integer	M	Profile class, including: <ul style="list-style-type: none"> ● 0: TEST ● 1: PROVISIONING ● 2: OPERATIONAL
mncLen	Integer	M	[2,3]
serviceProviderName	String	O	The maximum length is 50 characters.
prp	Integer	M	Profile redownload policy [0,5], described in Chapter III Basic Rules.
ara	String	O	^[0-9a-fA-F_]{1,200}\$
ecallIndication	boolean	O	Specifies whether to classify Profiles within that Profile type as emergency Profiles.

fallbackAllowed	boolean	O	Specifies whether the Profiles within that Profiletype support fallback.
profileTemplate	Object	M	ProfileTemplate
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
ProfileTemplate Domain	Type	MOC	Description
name	String	M	Profile template name (^[0-9a-zA-Z_\\-]{3,30}\$)
hplmnRatList	List<PlmnRat>	M	Parameter HPLMN in Profile template. The maximum size is 100 entries.
fplmnList	List<PlmnParam>	O	The maximum size is 100 entries.
oplmnRatList	List<PlmnRat>	O	The maximum size is 100 entries.
plmnRatList	List<PlmnRat>	O	The maximum size is 100 entries.
rplmn	String	O	
smspParam	List<SmssParam>	O	
pnn	String	O	
sume	String	O	
eccParam	Object	O	EccParam
adnParamList	List<AdnParam>	O	
sdnParamList	List<AdnParam>	O	
mnoParam	Object	O	MnoParam
usimRFMParam	Object	O	RfmParam
uiccRFMParam	Object	O	RfmParam
isimParam	Object	O	IsimParam
rotation	String	O	R1-R5

pin1	String	O	<code>^\d{4}\$</code>
pin2	String	O	<code>^\d{4}\$</code>
adm1	String	O	<code>^\d{4,10}\$</code>
adm2	String	O	<code>^\d{4,10}\$</code>
puk1	String	O	<code>^\d{8}\$</code>
puk2	String	O	<code>^\d{8}\$</code>
appletTemplate1	Object	O	AppletTemplate
gid1	String	O	<code>^[0-9a-fA-F]{1,16}\$</code>
gid2	String	O	<code>^[0-9a-fA-F]{1,16}\$</code>
fifthGenerationParam	FifthGenerationParam	O	A parameter for 5G mobile communication
eap	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
euiccMandatoryAIDs	List<EuiccMandatoryAIDParam>	O	The maximum size is 20 entries.
snpn	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
prose5g	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
PlmnRat Domain	Type	MOC	Description
plmn	String	M	The length is 5-6 digits.
rat	String	M	Rat, with a length of 4 characters in HEX format
PlmnParam Domain	Type	MOC	Description
plmn	String	M	The length is 5-6 digits.
SmspParam Domain	Type	MOC	Description
alphalidentifier	String	M	The maximum length is 20 characters.

serviceCenterAddressTon	String	M	The length is 2 digits.
number	String	M	The maximum length is 20 digits.
time	Integer	M	
timeUnit	String	M	Time unit enumeration, including: <ul style="list-style-type: none"> • MINUTE • HOUR • DAY • WEEK
EccParam Domain	Type	MOC	Description
emergencyCode	String	M	Emergency code with a maximum length of 4 digits.
emergencyType	String	M	Emergency type, including: <ul style="list-style-type: none"> • 00 • 01 • 10 • 11
AdnParam Domain	Type	MOC	Description
displayName	String	O	The maximum length is 30 characters.
number	String	O	The maximum length is 11 digits.
ton	String	M	Ton, including: <ul style="list-style-type: none"> • 81 • 91
MnoParam Domain	Type	MOC	Description
enc	String	M	^[0-9a-fA-F]{32}\$
mac	String	M	^[0-9a-fA-F]{32}\$
dek	String	M	^[0-9a-fA-F]{32}\$
type	String	M	Type, including: <ul style="list-style-type: none"> • AES • DES
keyVersion	Integer	M	[1,15]
RfmParam Domain	Type	MOC	Description

rfmTarList	List<String>	M	
minimumSecurityLevel	String	M	
IsimParam Domain	Type	MOC	Description
domain	String	M	Home network domain name
ad	String	M	Administrative data
pcscfList	List<PcscfParam>	O	P-CSCF address
rfmParam	Object	O	RfmParam
PcscfParam Domain	Type	MOC	Description
type	String	M	Address type, including: • 00 (FQDN) • 01 (IPv4) • 02 (IPv6)
value	String	M	
AppletTemplate Domain	Type	MOC	Description
loadPackageAID	String	M	
loadBlockObject	String	M	
fileManagementCMD	String	O	
instanceParam	List<ApplicationInstanceParam>	M	The size is limited to 1 entry.
c9	String	O	A parameter for Applet installation
ApplicationInstanceParam Domain	Type	MOC	Description
applicationLoadPackageAID	String	M	
classAID	String	M	
instanceAID	String	M	
uiccToolkitApplicationSpecifi cParametersField	String	O	
uiccAccessApplicationSpecifi cParametersField	String	O	

uiccAdministrativeAccessAplicationSpecificParametersField	String	O	
ts102226SIMFileAccessToolKitParameter	String	O	
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addProfileType".
FifthGenerationParam Domain	Type	MOC	Description
protectionScheme	Integer	M	Values include: <ul style="list-style-type: none"> • 0 (Null scheme) • 1 (ECIES scheme profile A) • 2 (ECIES scheme profile B)
publicKeys	List<PublicKeyParam>	M	List of public keys
keyIndex	Integer	M	The public key that is selected.
updateStatusAccess	Integer	O	Values include: <ul style="list-style-type: none"> • 0 (51: Updated) • 1 (5U2: Not updated) • 2 (5U3: Roaming not allowed)
supi	String	O	Subscription permanent identifier
routingIndicator	Integer	O	Routing indicator
ursp	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
tn3gppsnn	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)

cag	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
sorCmci	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
dri	String	O	HEX format with a length of either 0 or at least 14 characters (even number of characters length)
sedrx5g	String	O	HEX format with a length of either 0 or 4 characters
nswoConf5g	String	O	HEX format with a length of either 0 or 2 characters
mchppImn	String	O	HEX format with a length of either 0 or 2 characters
kaufDerivation	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
usimCalcSuci	boolean	O	Specifies whether to enable USIM SUCI calculation
PublicKeyParam Domain	Type	MOC	Description
publicKey	String	O	Value of public key
pki	String	O	Public key ID in HEX format with maximum length of FF characters
EuiccMandatoryAIDParam Domain	Type	MOC	Description
aid	String	O	HEX format with a length between 10-32 characters (even number of characters length)
version	String	O	HEX format with a length of 4 characters

Response Parameters

Name	Type	Description

profileTypeName	String	Profile type name
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "name": "TYPE1",
  "installNotificationSwitch": true,
  "enableNotificationSwitch": true,
  "disableNotificationSwitch": true,
  "deleteNotificationSwitch": true,
  "maxDownloadAttempts": 10,
  "maxCCAttempts": 10,
  "maxDownloadSuccessTimes": 10,
```

```

"profilePolicyRules":  

"hfX5k86tbeQvwBm6hWyHc4GdOasHTyiOBm0Ctbb7WOtA78rc3sITFmZH49ed2F+5GkAsQbEJDeHnRcUFY4IxTCkpUsyQ+5Zke  

B8xSgiDKv3kf2l/PdN+egwDwjAWjntRR4jhMrJwn4TsLWDNHLoXAAL2FTfzPIHWxF22Wmy0f7JS7RdlovozJYEiG/KyNS4tkJ3z5EvIB  

w7uglf+TPmYe5A4e3vzO0L3pcHy8dXlzN9THPjvUGZT5gl/Gf/CpuvjJgiUPny1ycodaOdltaQowFFztoMmAlbAdW/iOTR2NXelvhgkO  

UOgUIX0PHbXu/siqu237zHO61IME6e+NZJTQ==",  

"profileClass": 2,  

"mncLen": 2,  

"prp": 3,  

"profileTemplate": {  

    "name": "TYPE1",  

    "hplmnRatList": [  

        {  

            "plmn": "46000",  

            "rat": "4000"  

        }
    ]
},  

"header": {  

    "functionRequesterIdentifier": "89b14aaef-c563-49d7-93ed-1b38f9852a1e",  

    "functionCallIdentifier": "addProfileType"
}
}

```

Example Successful Response Body

```
{
"header": {
    "functionExecutionStatus": {
        "status": "Executed-Success"
    }
},
"profileTypeName": "TYPE1"
}
```

Example Failed Response Body

```
{
"header": {
    "functionExecutionStatus": {
        "status": "Failed",
        "statusCodeData": {
            "subjectCode": "8.2.5",
            "reasonCode": "2.1",
            "message": "Profile Type name exists",
            "subjectIdentifier": null
        }
    }
}
```

```
}
```

5.2.2.4 UpdateProfileType

Description: To update the information of a Profile type created on the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/update	200

Request Parameters

Name	Type	MOC	Description
name	String	M	Profile type name (^[0-9a-zA-Z\-_]{3,30}\$) This is the unique identifier for calling the UpdateProfileType API and cannot be changed.
installNotificationSwitch	boolean	M	Specifies whether to turn on the INSTALL notification
enableNotificationSwitch	boolean	M	Specifies whether to turn on the ENABLE notification
disableNotificationSwitch	boolean	M	Specifies whether to turn on the DISABLE notification
deleteNotificationSwitch	boolean	M	Specifies whether to turn on the DELETE notification
ccRetryLimitExceededNotificationSwitch	boolean	O	Specifies whether to turn on the "Exceeding Confirmation Code Retry Limit" notification Defaults to 'True' if not configured
downloadRetryLimitExceededNotificationSwitch	boolean	O	Specifies whether to turn on the "Exceeding Download Retry Limit" notification Defaults to 'True' if not configured
maxDownloadAttempts	Integer	M	Number of maximum download attempts [1,100]

maxCCAttempts	Integer	M	Number of maximum confirmation code input attempts [1,100]
maxDownloadSuccessTimes	Integer	M	Number of maximum successful Profile downloads [1,100]
mncLen	Integer	M	[2,3]
serviceProviderName	String	O	The maximum length is 50 characters.
prp	Integer	M	Profile redownload policy [0,5], described in Chapter III Basic Rules.
ara	String	O	^[0-9a-fA-F_\-]{1,200}\$
ecallIndication	boolean	O	Specifies whether to classify Profiles within that Profile type as emergency Profiles.
fallbackAllowed	boolean	O	Specifies whether the Profiles within that Profile type support fallback.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateProfileType".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus
Domain	Type	Description

functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● Message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "name": "TYPE1",
  "installNotificationSwitch": true,
  "enableNotificationSwitch": true,
  "disableNotificationSwitch": true,
  "deleteNotificationSwitch": true,
  "ccRetryLimitExceededNotificationSwitch": true,
  "downloadRetryLimitExceededNotificationSwitch": true,
  "maxDownloadAttempts": 15,
  "maxCCAttempts": 15,
  "maxDownloadSuccessTimes": 15,
  "mncLen": 2,
  "serviceProviderName": "eSIM",
  "prp": 3,
  "header": {
    "functionRequesterIdentifier": "9f87ceba-f69d-457b-abf7-4ae7634fcff2",
    "functionCallIdentifier": "updateProfileType"
  }
}
```

```
{
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.5",
        "reasonCode": "2.1",
        "message": "Profile Type not exists",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.2.5 AddProfileTypeByUPP

Description: To create a new Profile type on the RSP platform by UPP template.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/upp/add	200

Request Parameters

Name	Type	MOC	Description
name	String	M	Profile Type Name

			(^[0-9a-zA-Z_\-.]\{3,30}\\$)
installNotificationSwitch	boolean	M	Specifies whether to turn on the INSTALL notification
enableNotificationSwitch	boolean	M	Specifies whether to turn on the ENABLE notification
disableNotificationSwitch	boolean	M	Specifies whether to turn on the DISABLE notification
deleteNotificationSwitch	boolean	M	Specifies whether to turn on the DELETE notification
ccRetryLimitExceededNotificationSwitch	boolean	O	Specifies whether to turn on the “Exceeding Confirmation Code Retry Limit” notification Defaults to ‘True’ if not configured
downloadRetryLimitExceededNotificationSwitch	boolean	O	Specifies whether to turn on the “Exceeding Download Retry Limit” notification Defaults to ‘True’ if not configured
maxDownloadAttempts	Integer	M	Maximum times of Profile download attempts [1,100]
maxCCAttempts	Integer	M	Maximum times of confirmation code input attempts [1,100]
maxDownloadSuccessTimes	Integer	M	Maximum times of successful downloads [1,100]
profilePolicyRules	String	M	Profile policy rules A combination of 0 or 1, length is 3. When the profileClass is TEST, the default value is 000. The value must be encrypted using KEK PK by RSA, then encoded in Base64 format.
profileClass	Integer	M	Profile class, including: <ul style="list-style-type: none">● 0: TEST● 1: PROVISIONING● 2: OPERATIONAL
mncLen	Integer	M	[2,3]
serviceProviderName	String	O	The maximum length is 50 characters.

prp	Integer	M	Profile redownload policy [0,5], described in Chapter III Basic Rules.
ara	String	O	^[0-9a-fA-F_\.]{1,200}\$
uppProfileTemplate	Object	M	Upp Profile template
ecallIndication	Boolean	O	Indicates whether the Profiles within that Profile type are classified as emergency Profiles.
fallbackAllowed	Boolean	O	Indicates whether Profiles within that Profile type are configured to support fallback.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
UppProfileTemplate Domain	Type	MOC	Description
name	String	M	Profile template name (^[0-9a-zA-Z_\.]{3,30}\$)
uppContent	String	M	UPP template content, must include ICCID, IMSI, KI, and OPC.
gid1	String	O	Hex string
gid2	String	O	Hex string
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addProfileTypeByUpp".

Response Parameters

Name	Type	Description
profileTypeName	String	Profile type name

header	Object	Response header defined in the SGP specification, including functionExecutionStatus.
Name	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in the SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "name": "My-Add-via-Upp-QSASD",
  "installNotificationSwitch": true,
  "enableNotificationSwitch": true,
  "disableNotificationSwitch": true,
  "deleteNotificationSwitch": true,
  "ccRetryLimitExceededNotificationSwitch": true,
  "downloadRetryLimitExceededNotificationSwitch": true,
  "maxDownloadAttempts": 50,
  "maxCCAttempts": 100,
  "maxDownloadSuccessTimes": 20,
```

```
"profilePolicyRules": "nmkop3rn25n2o3mek2nortinwesndfonsa",
"profileClass": 2,
"mncLen": "2",
"serviceProviderName": "anystring",
"prp": "2",
"ara": "AAFFFF",
"uppProfileTemplate": {
  "name": "My-ProfileTemplateName",
  "uppContent": "{IMSI}{ICCID}{KI}{OPC}",
  "gid1": "AA",
  "gid2": "FF"
},
"header": {
  "functionRequesterIdentifier": "ewktfnmokdnsfomoadsmf",
  "functionCallIdentifier": "addProfileTypeByUpp"
}
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "profileTypeName": "Test"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.5",
        "reasonCode": "2.1",
        "message": "Profile Type name exists",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.2.6 UpdateProfileTemplateByUPP

Description: To update a Profile template on the RSP platform using the UPP template.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/template/upp/update	200

Request Parameters

Name	Type	MOC	Description
profileTypeName	String	M	Profile type name (^[0-9a-zA-Z_\-.]{3,30}\$)
uppProfileTemplate	Object	M	UppProfileTemplate
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
UppProfileTemplate Domain	Type	MOC	Description
name	String	M	Profile template name (^[0-9a-zA-Z_\-.]{3,30}\$)
uppContent	String	M	UPP template content, which must include ICCID, IMSI, KI, and OPC.
gid1	String	O	Hex string
gid2	String	O	Hex string
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateProfileTemplateByUpp".

Response Parameters

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Name	Type	Description
profileTypeName	String	Profile type name
profileTemplateName	String	Profile template name
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "profileTypeName": "addtype2",
  "uppProfileTemplate": {
    "name": "My-ProfileTemplateName",
    "content": "SGP content"
  }
}
```

```
"uppContent": "{IMSI}{ICCID}{KI}{OPC}",
"gid1": "AA",
"gid2": "FF"
},
"header": {
"functionRequesterIdentifier": "${RequestID}",
"functionCallIdentifier": "updateProfileTemplateByUpp"
}
}
```

Example Successful Response Body

```
{
"header": {
"functionExecutionStatus": {
"status": "Executed-Success"
}
},
"profileTypeName": "My-Add-via-Upp-QSASD",
"profileTemplateName": "My-ProfileTemplate"
}
```

Example Failed Response Body

```
{
"header": {
"functionExecutionStatus": {
"status": "Failed",
"statusCodeData": {
"subjectCode": "8.2.5",
"reasonCode": "2.1",
"message": "profile type cannot be found. ",
"subjectIdentifier": "jinfeng_applet_01"
}
}
}
}
```

5.2.2.7 UpdateProfileTemplate

Description: To update a Profile template on the RSP platform by Profile type name.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/profileType/template/update	200

Request Parameters

Name	Type	MOC	Description
profileTypeName	String	M	Profile type name (^[0-9a-zA-Z_\\-\\.]{3,30}\$)
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
operatorId	Long	M	Operator ID
hplmnRatList	List<PlmnRat>	M	HPLMN parameter in the profile template. The maximum size is 100 entries.
fplmnList	List<PlmnParam>	O	The maximum size is 100 entries.
oplmnRatList	List<PlmnRat>	O	The maximum size is 100 entries.
plmnRatList	List<PlmnRat>	O	The maximum size is 100 entries.
rplmn	String	O	
smspParam	List<SmssParam>	O	
pnn	String	O	
sume	String	O	
eccParam	Object	O	EccParam
adnParamList	List<AdnParam>	O	
sdnParamList	List<AdnParam>	O	
mnoParam	Object	O	MnoParam
usimRFMParam	Object	O	RfmParam
uiccRFMParam	Object	O	RfmParam
isimParam	Object	O	IsimParam

rotation	String	O	R1-R5
pin1	String	O	^\d{4}\$
pin2	String	O	^\d{4}\$
adm1	String	O	^\d{4,10}\$
adm2	String	O	^\d{4,10}\$
puk1	String	O	^\d{8}\$
puk2	String	O	^\d{8}\$
appletTemplate1	Object	O	AppletTemplate
gid1	String	O	^[0-9a-fA-F]{1,16}\$
gid2	String	O	^[0-9a-fA-F]{1,16}\$
fifthGenerationParam	FifthGenerationParam	O	A parameter for 5G mobile communication
eap	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
euiccMandatoryAIDs	List<EuiccMandatoryAIDParam>	O	The maximum size is 20 entries.
snpn	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
prose5g	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
PlmnRat Domain	Type	MOC	Description
plmn	String	M	The length is 5-6 digits.
rat	String	M	Rat, including: ● 4000 ● 8000 ● 0080
PlmnParam Domain	Type	MOC	Description
plmn	String	M	The length is 5-6 digits.

SmspParam Domain	Type	MOC	Description
alphaldentifier	String	M	The maximum length is 20 characters.
serviceCenterAddressTon	String	M	The length is 2 digits.
number	String	M	The maximum length is 20 digits.
time	Integer	M	
timeUnit	String	M	Time unit enumeration, including: <ul style="list-style-type: none"> • MINUTE • HOUR • DAY • WEEK
EccParam Domain	Type	MOC	Description
emergencyCode	String	M	Emergency code with a maximum length of 4 digits.
emergencyType	String	M	Emergency type, including: <ul style="list-style-type: none"> • 00 • 01 • 10 • 11
AdnParam Domain	Type	MOC	Description
displayName	String	O	The maximum length is 30 characters.
number	String	O	The maximum length is 11 digits.
ton	String	M	Ton, including: <ul style="list-style-type: none"> • 81 • 91
MnoParam Domain	Type	MOC	Description
enc	String	M	^[0-9a-fA-F]{32}\$
mac	String	M	^[0-9a-fA-F]{32}\$
dek	String	M	^[0-9a-fA-F]{32}\$
type	String	M	Type, including: <ul style="list-style-type: none"> • AES • DES
keyVersion	Integer	M	[1,15]

RfmParam Domain	Type	MOC	Description
rfmTarList	List<String>	M	
minimumSecurityLevel	String	M	
IsimParam Domain	Type	MOC	Description
domain	String	M	Home Network Domain Name
ad	String	M	Administrative data
pcscfList	List<PcscfParam>	O	P-CSCF address
rfmParam	Object	O	RfmParam
PcscfParam Domain	Type	MOC	Description
type	String	M	Address type, including: ● 00 (FQDN) ● 01 (IPv4) ● 02 (IPv6)
value	String	M	
AppletTemplate Domain	Type	MOC	Description
loadPackageAID	String	M	
loadBlockObject	String	M	
fileManagementCMD	String	O	
instanceParam	List<ApplicationInstanceParam>	M	The size is 1 entry.
c9	String	O	A parameter for Applet installation
ApplicationInstanceParam Domain	Type	MOC	Description
applicationLoadPackageAID	String	M	
classAID	String	M	
instanceAID	String	M	
uiccToolkitApplicationSpecificationParametersField	String	O	

uiccAccessApplicationSpecificParametersField	String	O	
uiccAdministrativeAccessApplicationSpecificParametersField	String	O	
ts102226SIMFileAccessToolkitParameter	String	O	
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateProfileTemplate".
FifthGenerationParam Domain	Type	MOC	Description
protectionScheme	Integer	M	Values include: <ul style="list-style-type: none">• 0 (Null scheme)• 1 (ECIES scheme profile A)• 2 (ECIES scheme profile B)
publicKeys	List<PublicKeyParam>	M	List of public keys
keyIndex	Integer	M	The public key that is selected.
updateStatusAccess	Integer	O	Values include: <ul style="list-style-type: none">• 0 (5U1: Updated)• 1 (5U2: Not updated)• 2 (5U3: Roaming not allowed)
supi	String	O	Subscription permanent identifier
routingIndicator	Integer	O	Routing indicator
ursp	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
tn3gppsnn	String	O	HEX format with a maximum length of

			2048 characters (even number of characters length)
cag	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
sorCmci	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
dri	String	O	HEX format with a length of either 0 or at least 14 characters (even number of characters length)
sedrx5g	String	O	HEX format with a length of either 0 or 4 characters
nswoConf5g	String	O	HEX format with a length of either 0 or 2 characters
mchppImn	String	O	HEX format with a length of either 0 or 2 characters
kaufDerivation	String	O	HEX format with a maximum length of 2048 characters (even number of characters length)
usimCalcSuci	boolean	O	Specifies whether to enable USIM SUCI calculation
PublicKeyParam Domain	Type	MOC	Description
publicKey	String	O	Value of public key
pki	String	O	Public key ID in HEX format with maximum length of FF characters
EuiccMandatoryAIDParam Domain	Type	MOC	Description
aid	String	O	HEX format with a length between 10-32 characters (even number of characters length)
version	String	O	HEX format with a length of 4 characters

Response Parameters

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Name	Type	Description
profileTypeName	String	Profile type name
profileTemplateName	String	Profile template name
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "profileTypeName": "RT_LY_TYPE14",
  "operatorId": 131,
  "hplmnRatList": [
```

```
{  
    "plmn": "22201",  
    "rat": "4000"  
}  
],  
"ehplmnList": null,  
"fplmnList": null,  
"oplmnRatList": null,  
"plmnRatList": null,  
"adnParamList": null,  
"sdnParamList": null,  
"rplmn": null,  
"smspParam": null,  
"apnList": null,  
"hpplmn": null,  
"pnn": null,  
"sume": null,  
"rotation": null,  
"xorng": null,  
"eccParam": null,  
"mnoParam": null,  
"usimRFMPParam": null,  
"uiccRFMPParam": null,  
"fifthGenerationParam": null,  
"pin1": "1233",  
"pin2": null,  
"adm1": null,  
"adm2": null,  
"puk1": null,  
"puk2": null,  
"gid1": null,  
"gid2": null,  
"appletTemplate1": null,  
"time": "2024-11-11T03:28:14.311+0000",  
"revoked": false,  
"eap": null,  
"euiccMandatoryAIDs": null,  
"snpn": null,  
"prose5g": null,  
"header": {  
    "functionRequesterIdentifier": "514a5f2c-58b2-4b06-a370-7ac48bc26cfa",  
    "functionCallIdentifier": "updateProfileTemplate"  
}  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"
```

```
        },
    },
    "profileTypeName": "testProfileType",
    "profileTemplateName": "testProfileTemplate"
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "8.2.5",  
        "reasonCode": "2.1",  
        "message": "profile type cannot be found.",  
        "subjectIdentifier": "teswsss14123"  
      }  
    }  
  }  
}
```

5.2.3 Order Management

5.2.3.1 SwapEID

Description: To forcefully change the linked EID, applies in the scenario that the subscriber needs to change the device.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/swap	200

Request Parameters

Name	Type	MOC	Description
sourceEid	String	M	Original device EID
targetEid	String	M	Target device EID

iccid	String	O	ICCID of the Profile. If it is not contained, the system will replace the EID of all the generated orders.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "orderSwap".

Response Parameters

Name	Type	Description
header	Object	Response header defined in the SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in the SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● Message ● subjectIdentifier

Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccId": "8999699921509727166f",
  "sourceEid": "89086034202200001021000034790106",
  "targetEid": "8904903200001000000167454952138",
  "header": {
    "functionRequesterIdentifier": "3a646b85-a946-423b-b1cb-f4b4ebf3574b",
    "functionCallIdentifier": "orderSwap"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.8.5",
        "reasonCode": "3.8",
        "message": "DOWNLOAD_ORDER [8999699921509727166f] not found in the database",
        "subjectIdentifier": null
      }
    }
  }
}
```

```

    }
}
}
```

5.2.3.2 GenerateByProfileMetadata

Description: To add a Profile to the RSP platform and generate AC for it.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/generateByProfileMetadata	200

Request Parameters

Domain	Type	MOC	Description
iccid	String	M	Iccid of the Profile for import
imsi	String	M	The plaintext IMSI must be converted to bytes, encrypted with AesKey, then encoded in HEX format.
ki	String	M	The HEX-encoded KI plaintext must be decoded and converted to bytes, encrypted with AesKey, then encoded in HEX format.
opc	String	M	The HEX-encoded OPC plaintext must be decoded and converted to bytes, encrypted with AesKey, then encoded in HEX format.
pin1	String	O	Personal Identification Number 1
pin2	String	O	Personal Identification Number 2
puk1	String	O	PIN Unblocking Key 1
puk2	String	O	PIN Unblocking Key 2
adm1	String	O	Administrative Key 1
msisdn	String	O	MSISDN of the Profile, must be encoded in UTF-8 format
impi	String	O	An ISIM application authentication parameter,

			required for ISIM Profile generation
impuList	List<String>	O	An ISIM application authentication parameter, required for ISIM Profile generation
c9	String	O	A parameter for Applet installation
ara	String	O	A parameter for App signature generation
fileManagementCMD	String	O	File management CMD
smsp	String	O	SMSP value
profileName	String	O	Profile name. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
pnn	String	O	PNN value
hplmnRatList	List<PlmnRat>	O	List of HPLMN
ehplmnList	List<PlmnParam>	O	List of EHPLMN
fplmnList	List<PlmnParam>	O	List of FPLMN
oplmnRatList	List<PlmnRat>	O	List of OPLMN
profileType	String	O	Profile type that the new Profile belongs to. The type can be retrieved on the RSP platform. The default Profile type will be used if not specified.
encAesKey	String	M	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.
eid	String	O	Device EID. If the user needs to generate the download credential for a device, it is required.
matchingId	String	O	Unique identifier of the order. If the caller does not generate, the RSP platform will generate it automatically.

confirmationCode	String	O	Confirmation code
smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "generateByProfileMetadata".

Response Parameters

Domain	Type	Description
iccid	String	ICCID
eid	String	
activationCode	String	
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed

		<ul style="list-style-type: none"> • Executed-WithWarning • Expired
statusCodeData	StatusCodeData	<p>Format defined in SGP specification, generated when the request execution fails, including:</p> <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "cf5b95b5-797c-4c52-a90a-a924243522e0",
    "functionCallIdentifier": "generateByProfileMetadata"
  },
  "iccid": "8986112222403171076",
  "imsi": "636F0549ADCE9EB965B93F052D531267",
  "ki": "08380059C4158580011A182B50BD10CD925FE015A4A255B33B0F338D729611B7",
  "opc": "B1C08B5C564576B345889253E0576BD6CFFE380457F3E1C5158EDABB9F564D8A",
  "pin1": "",
  "pin2": "",
  "puk1": "",
  "puk2": "",
  "adm1": "",
  "msisdn": "",
  "impi": "",
  "impulList": [],
  "c9": "",
  "encAesKey": "qaeVab8/tnzlj7VS2a15PX9YgAMI1FTTTWiEzq1DiSYJ1P40CZhjLrZ9RFg0rRl2/Zn zgUOgXlje9Zm5uF1oVbKViOrCkZvtAA nCBEXioJfS W+onRnqhyai vyGRQOImHSBzMmMNG3HmlYRdcJsIrbAAZMVIPTJShiCxeK18SKXTNI3cNVvdDZ9oc+7YHBNJC Nc4HFsu tyZJm69e1pvBGcFOCFmbTjqZtbiMbdoow36ubp7hu+S/P7RRArN0u9ErsDFviyQ0IjzWFDrv t1hReyv3+xd/hngvBldmfOebFZH Gwl+cw7TTo oW4O8u6E28fdPfqSTcYRH87CT6MrviY/sw==",
  "profileType": "TYPE1",
  "smdsAddress": ""
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "8986112222403171076",
  "eid": null,
  "activationCode": "1$smdp-core.redteatest.com$387699999E388A6D5BABC0D96A465834"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2",
        "reasonCode": "3.3",
        "message": "Profile is existed",
        "subjectIdentifier": "8986112222403171076f"
      }
    }
  }
}
```

5.2.3.3 GenerateByProfileUPP

Description: To add a Profile to the RSP platform by UPP and generate AC for it. If the Profile type is not specified, the Operator's default Profile type will be used.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/generateByProfileUPP	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile

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imsi	String	M	IMSI
encAesKey	String	M	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.
encUpp	String	M	UPP encrypted with AES key and encoded in Base64 format
profileType	String	O	Profile type that the new Profile belongs to. The type can be retrieved from the RSP platform management portal. The default Profile type will be used if not defined.
eid	String	O	Device EID. If the user needs to generate the download credential for a device, it is required.
matchingId	String	O	Unique identifier of the order. If the caller does not generate, the RSP platform will generate it automatically.
confirmationCode	String	O	Confirmation code
smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
serviceProviderName	String	O	Service provider name. The value is prioritized for use in StoreMetadataRequest during profile download.
profileName	String	O	Profile name. The value is prioritized for use in StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during

			profile download.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "generateByProfileUPP".

Response Parameters

Domain	Type	Description
iccid	String	ICCID
eid	String	
activationCode	String	
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCodeData	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message

		• subjectIdentifier
Status Code Data Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "89861122253992533712",
  "imsi": "4600000000000011",
  "encAesKey":
    "CQFi13/6ZFO4ySHOaptYfJDCmBvflE2IdIOLpXdKRxrPvA8X4VDIPuDfUxv8p/vMnDI4E6EyVWDG9k0OyPZ2KKdf83lyagva98kE50
    vX7CqApajHB1eCNjJ3ssUaN5BxgnGXCo/+Nmfhiku75qrCaKHc2tvRiceopE2lvahogJFApcABYIE55CD8FflmBCjEWQcooNDgLsxt
    o7DYt1lt79xvEpTaKYZXeOevaziLQDXii7ls3KWGWYVUS24i7Fgrm/2qknoOGR3ij+QnxuLTbpisl02/A0hBrONzCIM1Rr2RD4jnajzF
    Hn4Tv97pzRjk4ewFlq/khjdE1r8V1g==",
  "encUpp":
    "EaxgvMVKks07u3oXkA+8HrHyE6mtP0Yxv3NuE0wQ/1fIS7OWE9BXkSxsGzUvvmufHOeU5ToSKrtALXqelcYRBWA/Uda+55fLTxN
    yYkaAwk4yNVcykuAvG+Q29w50Wz6K6kpARXcesY4JGS+u2aWxjGDHj6/dUCIkysvRCt0UgBphzv8t1jKX6Rnp2lvAZX5JS0xdJCyxL
    jj1y0V4glQz03V8q+LrLboHqXsAcEh1qKmbLC7BqjvKTSnWbc+GHhj2lyQxBwR5otlKMPICV25NcP7VJM4Th85pNcKSI8IKpMz2u
    MVf7M3SEclOlgObfm7jd9F+o91EnMhyVNfj6Olvxlrre20R640dIPtJ1fP+sVUro0sByTlwTFC6+NcWmkCx4MYTVq2hlanOqjk98
    3UR8euj3xnd/VUVogixNYB8DHWCs1wobR4n1jZEAPtqg8k8UEPKxAABAvr4u3mb7U3oE+QvvkViy+rRi0xBBjz30fAm8Uza5JNFT
    kQc64GL13o7rNXts6wOKk+OK9DlbeS+H7aLkpxFCfvfNNPtOFTHlcKbL1r6mlKS+bf+Bea7cdSaEEhtUBEs/lkpLDVC6sNG600OLZU
    ZkyhQ9dqT1vev7VfePjOO6owkK3dQcDuT5KA56wQeTA+YRt/c2J0IVjw40DxExmnx2+2HcWExy1quPOZM6BRCU5TQOpqJoyLD
    cZn+RVWgS9Q0Fr2BLiSxWG9v1nrP7LpjxK713B1C70nVhXM3cyq2wyK0t64T0yBbXjZEJS8ylzmCNY4sEqIVs7s26LPdnj8LR6J9fPrp
    HRxo+EeKOLeF+kv87EPzz+PUddJx8lGkdy/mxKV4QHACZRUSUsCZfoVNzhRzBOYq7EPCCs22pipTmZ21C3lIV94vZ3MZDyrgpyCa7c
    YP5kxrWkx20FLk+mFLkwE8lotiNr5dsfPv+kz0enAQ4i9R6V5iITaJB5vFpPqARo6/RQBtPOFgYxUS/506B2QP1cdP0EahHgfrTry9Ue
    3Eg4vsi8YwvAUrPTSDgdL60ivaR/Hg8RhV37DY3+RLSk4YekEGWAooKmv+VuSJ/4eYNrqPZfbYM4DUlAV1bLUR2xQ7oNpiefCaOo
    KAQ1L12Rui/sq92217DsREmv/z26DfvDTQkLW73mCdJf/385JTHXVL0HMVsnyuk1au7uXpwVQWBKHj/EiOkwgptD/lxgCi5igGamf
    BW0WtZ1rvzGpAmZloQrIMXE4U6iXKwBN0QJS6qqeY2poC+ZJHzlxAGEr84ID8XtnZ9jj81tDjzswwujcPjTxNsIS0jQ9yvYCVIzMa
    myBO6AxsJS94elgR4Bf7LAXUSYBw06iy3QbNbvgZja+o0XVkrh8/S3eeDykzeJcOO8t12J/8g1lg5ntooNFSIlyfkYMedzajdiMv68e1
    H9s2DJF8OQlrii6H+TIV8kBhtJANXIP/y44IR50ynnDKCMle7LtIi8U2Bs6W7XNpbw2YLCHBQKZeEu201TY+VtvmJ/ghh1zlkc50Zdi0j
    8k0RDdxUIPvV4u8rvSSG1uj4BcHeWW22Hd1BLjmeukPaRC6wKBXhSzVAuvl6LowwbBS71Jzf2QXPZ53qbALTdc5aaBMoMLQPG5
    9NR9WHWu2w63J9WfGh1v6t6tdV9i+RJ00VgOO6aSqQ07b5+/PdVbt9uNrhcD0A2xrngSd6wDr01zWlZnPNqjtogQSmo/4skuZ
    ZJUDxUpQ3rhEcUmUfDgnmBUUIBF1mAvBwKeh5rZ+e45xJt6lgXLZ3sPmxas3JsgwfV2PQ1BrP4vdXopmAf5IfwiBvE/uLUDzb44P
    ZmWfQTsQRy3rSakYHho7G5NG5VngCWNUXWtFY4DbjWU0oNaCTP340mrujXvDithksXzu6QTIJH+Ki2ca8206NiYpa5wDBbtKN
    Ho1O5+MvbwSo64D/2P4FvXh5/AnUMP3jePpYjBvYODIUr6GFyLVNqBxwQc+iz/Qh+XOrH9KhSGIO+u1PbD81gDTu+zAUNt/V9x
    NNpFZKPlqr19vNt3u68TauShSEymTZXOmG07zzb9h5xxnC81aLY9sLDTWEp5IIUEqJjlwQsMLGCgh8MAS9MoqRp7Q5/r3nIBs
    CTpZsSDbQsbLc+kY8XAmnyC08QBjzBhbK9B0xtSsQ6fRW8OQz3v7aZo6DqEG3txs66vIP+T7LegYxrWdoOC5tMXLyfVse88NyB
    ntm7BjSQBNs4Uwiz9Ms15x2tyNcVwPdlMMz1v+9XmekHgtGNh947SGbxatbIONIXLQffAezLT1Cerh7bCGwQ4HfZKF3U00tPx
    Xtm+tLiikNjswebvqU70x2W0csVcAIRZf3faLoNCEFcY0VPPVm1a2FdSyHpid2wERO/cblhLLhg/ENjs6Z+c3gcumVMBI/lsvQygs
    mWLTFQ84rpGygUWnG9pFLdEo5OAoIAHTJCPo/Jc3GPhH3yE8b7Mo09doHmwOUNr7ff8QJr1EavfAq5DQXhWNU6EdqCB96
    Yj/+NpvllrJhZB9kSz3qlJm5o4f/Fz1RZcoUboGi0yRnP1hXxv+vNZSxfiquomoqtPvmanZhU8lbrU7Cerfml9PqZJDKIK2BjJ9gBlKm3
    NulPRmdVgm4Xamnhkk8h+UO7cfmdbDt/dHwBAUojpcL2pNW2YQKhc8BT8ANO1Z17Ao31rQvQ9yg2e/D8MLyBWcZxKKOqu27
    9b2B75ob2ZWfzaf1plhZNseMFNaHA7w1+ZXouu1J6N4txYf6FWDWTwR4JDHqyfWIQ8ab3Hcz0Sm65ltAzEZiEqZN49eopdkKW
}
```

```
7zLrVUomYyXU8RjaCAipMom7834gKcyHrB/5g6HYDKtLiK4Zo23BkYfkQqQJhsnr30ngKhueY5Y0hUSJzcGr5ettOjJw0zc07m+ssN  
U8AwfcpyFxCSn7Dg5FikUvG04UJoBgTIWiwqMfwdg8DbCstEp6EX5mCldKrFKmeX749522U30IGvGzDt7k",  
"profileType": "Test",  
"header": {  
"functionRequesterIdentifier": "6a6d00b6-cb61-4da8-a849-4648a7146ca7",  
"functionCallIdentifier": "generateByProfileUPP"  
}  
}
```

Example Successful Response Body

```
{  
"header": {  
"functionExecutionStatus": {  
"status": "Executed-Success"  
}  
}  
,"iccid": "89861122253992533712",  
"eid": null,  
"activationCode": "1$smdp-core.redteatest.com$387699999E388A6D5BABF0D96A265834"  
}
```

Example Failed Response Body

```
{  
"header": {  
"functionExecutionStatus": {  
"status": "Failed",  
"statusCodeData": {  
"subjectCode": "8.2.1",  
"reasonCode": "3.3",  
"message": "ICCID [89861122253992533712] already existsByld",  
"subjectIdentifier": null  
}  
}  
}  
}
```

5.2.3.4 GenerateByUPPParams

Description: To add a Profile to the RSP platform and generate the order and activation code. The user must specify a Profile type created using the UPP template and input the required parameters.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/generateByUPPParams	200

Request Parameters

Name	Type	MOC	Description
paramKeyValueList	List<ParamKeyValue>	M	<p>Parameters key-value of the Profile to be imported, wherein ICCID, IMSI, KI and OPC are mandatory. The IMSI must be provided in HEX format as eIMSI.</p> <p>The KI and OPC must be encrypted using the TransportKey associated with the k4Name or the AES Key used to generate the encAesKey.</p>
k4Name	String	C	Name of transport key used for KI and OPC encryption
encAesKey	String	C	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.
profileType	String	M	Specifies Profile type that the new Profile belongs to. The type can be retrieved from the RSP platform management portal. It must be created using the UPP template.
eid	String	O	Device EID. If the user needs to generate the download credential for a device, it is required.
matchingId	String	O	Unique identifier of the order. If the caller does not generate, the RSP platform will generate it automatically.
confirmationCode	String	O	Confirmation code
smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
serviceProviderName	String	O	Service provider name. The value will be prioritized for use in StoreMetadataRequest during profile

			download.
profileName	String	O	Profile name. The value will be prioritized for use in StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value will be prioritized for use in StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value will be prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA, must be encoded in HEX format. The value will be prioritized for use in StoreMetadataRequest during Profile download.
Domain	Type	MOC	Description
functionRequesterId	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "generateByProfileUPPPParams".

Response Parameters

Name	Type	Description
iccid	String	ICCID
eid	String	
activationCode	String	
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status

		<ul style="list-style-type: none"> ● statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCodeData	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "k4Name": "SomeK4Name",
  "profileType": "PROFILE_TYPE_001",
  "header": {
    "functionRequesterIdentifier": "5fb1594a-7e18-4288-8ed4-3a10e28b5c15",
    "functionCallIdentifier": "generateByUppParams"
  },
  "paramKeyValueList": [
    {
      "paramKey": "ICCID",
      "paramValue": "96454844141011115555"
    },
    {
      "paramKey": "IMSI",
      "paramValue": "666688880010000111"
    },
    {
      "paramKey": "KI",
      "paramValue": "e10e3898b7873d72f576936ceab591f0"
    }
  ]
}
```

```
        },
        {
            "paramKey": "OPC",
            "paramValue": "e10e3898b7873d72f576936ceab591f0"
        }
    ],
    "matchingId": "5533101010101010"
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "iccid": "96454844141011115555",
  "eid": null,
  "activationCode": "1$rsp-xian.redteaready.cn$5533101010101010"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "2.1",
        "message": "iccid already exists",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.3.5 BatchGenerateByProfileMetadata

Description: To import Profiles to the RSP platform in batch and generate activation codes for the Profiles.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/batchGenerateByProfileMetadata	200

Request Parameters

Domain	Type	MOC	Description
metadatas	List<Metadata>	M	List of profile metadata, maximum 2000 Profiles in a batch
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Metadatas Domain	Type	MOC	Description
iccid	String	M	Iccid of the Profiles for import
imsi	String	M	The plaintext IMSI must be converted to bytes, encrypted with AesKey, then encoded in HEX format.
ki	String	M	The HEX-encoded KI plaintext must be decoded and converted to bytes, encrypted with AesKey, then encoded in HEX format.
opc	String	M	The HEX-encoded OPC plaintext must be decoded and converted to bytes, encrypted with AesKey, then encoded in HEX format.
pin1	String	O	Personal Identification Number 1
pin2	String	O	Personal Identification Number 2
puk1	String	O	PIN Unblocking Key 1
puk2	String	O	PIN Unblocking Key 2
adm1	String	O	Administrative Key 1
msisdn	String	O	MSISDN of the Profile, must be encoded in UTF-8 format
impi	String	O	An ISIM application authentication parameter, required for ISIM Profile generation

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impuList	List<String>	O	An ISIM application authentication parameter, required for ISIM Profile generation
c9	String	O	A parameter for Applet installation
ara	String	O	A parameter for App signature configuration
serviceProviderName	String	O	Specifies SPN value
fileManagementCMD	String	O	File management CMD
smsp	String	O	SMSP value
profileName	String	O	Profile name. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value is prioritized for use in the StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value is prioritized for use in StoreMetadataRequest during profile download.
pnn	String	O	PNN value
hplmnRatList	List<PlmnRat>	O	List of HPLMN
ehplmnList	List<PlmnParam>	O	List of EHPLMN
fplmnList	List<PlmnParam>	O	List of FPLMN
oplmnRatList	List<PlmnRat>	O	List of OPLMN
encAesKey	String	M	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format.
profileType	String	O	Profile type that the new Profile belongs to. The type can be retrieved on the RSP management portal. The default Profile type will be used if not defined.
eid	String	O	EID
matchingId	String	O	Unique identifier of the order, will be generated by the caller. If the caller does not generate, the RSP platform will generate it automatically.
confirmationCode	String	O	Confirmation code

smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "batchGenerateByProfileMetadata".

Response Parameters

Name	Type	Description
batchTaskId	Long	Batch task ID. The user can query information of the batch task through the ListBatchTaskInfo interface with the Batch task ID.
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCodesData	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier

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FunctionExecutionStatus Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "cf5b95b5-797c-4c52-a90a-a924243522e0",
    "functionCallIdentifier": "batchGenerateByProfileMetadata"
  },
  "metadata": [
    {
      "iccid": "8986112222403171076",
      "imsi": "636F0549ADCE9EB965B93F052D531267",
      "ki": "08380059C4158580011A182B50BD10CD925FE015A4A255B33B0F338D729611B7",
      "opc": "B1C08B5C564576B345889253E0576BD6CFFE380457F3E1C5158EDABB9F564D8A",
      "pin1": "",
      "pin2": "",
      "puk1": "",
      "puk2": "",
      "adm1": "",
      "msisdn": "",
      "impi": "",
      "impulList": [],
      "c9": "",
      "encAesKey": "qaeVab8/tnzlj7VS2a15PX9YgAMI1FTTTWiEzq1DiSYJ1P40CZhjLrZ9RFg0rRl2/Zn zgUOgXlje9Zm5uF1oVbKViOrCkZvtAA nCBEXioJfS W+onRnqhyavvyGRQOl mHSBzMmMNG3HmlYRdcJsIrbAAZMVIPTJS hiCxeK18SKXTNI3cNVvdDZ9oc+7YHBNJC Nc4HF sutyZJm69e1pvBGcFOC FmbTjqZtbiMbdoow36ubp7hu+S/P7RRArN0u9ErsDFviyQ0IjzWFDrvt1hReyv3+xd/hngvBldmfOebFZH Gwl+cw7TTOo W4O8u6E28fdPfqSTcYRH87CT6MrviY/sw==",
      "profileType": "TYPE1",
      "smdsAddress": ""
    },
    {
      "iccid": "8986112222403171077",
      "imsi": "636F0549ADCE9EB965B93F052D531267",
      "ki": "08380059C4158580011A182B50BD10CD925FE015A4A255B33B0F338D729611B7",
      "opc": "B1C08B5C564576B345889253E0576BD6CFFE380457F3E1C5158EDABB9F564D8A",
      "pin1": "",
      "pin2": "",
      "puk1": "",
      "puk2": "",
      "adm1": ""
    }
  ]
}
```

```

        "msisdn": "",
        "impi": "",
        "impuList": [],
        "c9": "",
        "encAesKey": "qaeVab8/tnzlj7VS2a15PX9YgAMI1FTTTWiEzq1DiSYJ1P40CZhjLrZ9RFg0rRl2/ZnzbUOgXlje9Zm5uF1oVbKViOrCkZvtAAncBEXioJfSW+onRnqhyavyGRQOImHSBzMmMNG3HmlYRdcJslrbAAZMVIPtJShiCxeK18SKXTNI3cNVvdDZ9oc+7YHBNJCnc4HFsutyzJm69e1pvBgCFOCFmbTjqZtbMbdoow36ubp7hu+S/P7RRArNOu9ErsDFviyQ0IjzWFDrtv1hReyv3+xd/hngvBldmfOebFZHGWl+cw7TToW4O8u6E28fdPfqSTcYRH87CT6MrviY/sw==",
        "profileType": "TYPE1",
        "smdsAddress": ""
    }
]
}

```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "batchTaskId": 1
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.8",
        "message": "batchGenerateByProfileMetadata data duplicate",
        "subjectIdentifier": "Profile ICCID"
      }
    }
  }
}
```

5.2.3.6 BatchGenerateByProfileUPPPParams

Description: To import Profiles in batch to the RSP platform using UPP template and generate AC for the Profiles.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/batchGenerateByProfileUppParams	200

Request Parameters

Name	Type	MOC	Description
k4Name	String	C	Transport key name used to encrypt parameters KI and OPC
encAesKey	String	C	AES-256 key generated by the Operator's system, must be encrypted with KEK PK using RSA algorithm, then encoded in Base64 format. If KI and OPC are encrypted with K4 (k4Name), it is not required.
uppParamItems	List<UppParamItem>	M	List of UPP parameter items, maximum 2,000 Profiles in a batch
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none"> • functionRequesterIdentifier • functionCallIdentifier
UppParamItem Domain	Type	MOC	Description
paramKeyValueList	List<ParamKeyValue>	M	Parameters key-value of the Profile to be imported, wherein ICCID, IMSI, KI and OPC are mandatory. The IMSI must be provided in HEX format as eIMSI. The KI and OPC must be encrypted using the TransportKey associated with the k4Name or the AES Key used to generate the encAesKey.
profileType	String	M	Name of Profile type created by UPP template
eid	String	O	EID

matchingId	String	O	Unique identifier of the order. If the caller does not generate, the RSP platform will generate it automatically.
confirmationCode	String	O	Confirmation code
smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
serviceProviderName	String	O	Service provider name. The value will be prioritized for use in StoreMetadataRequest during profile download.
profileName	String	O	Profile name. The value will be prioritized for use in StoreMetadataRequest during profile download.
gid1	String	O	GID1, must be encoded in HEX format. The value will be prioritized for use in StoreMetadataRequest during profile download.
gid2	String	O	GID2, must be encoded in HEX format. The value will be prioritized for use in StoreMetadataRequest during profile download.
ara	String	O	ARA, must be encoded in HEX format. The value will be prioritized for use in StoreMetadataRequest during profile download.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "batchGenerateByProfileUppParams".

Response Parameters

Name	Type	Description
batchTaskId	Long	Batch task ID. The user can query information of the batch task through the ListBatchTaskInfo interface with the Batch task ID.
header	Object	Response header defined in SGP specification,

		including functionExecutionStatus.
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCodeData	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "k4Name": "'k4test",
  "uppParamItems": [
    {
      "paramKeyValueList": [
        {
          "paramKey": "ICCID",
          "paramValue": "66600066600066600000"
        },
        {
          "paramKey": "KI",
          "paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"
        }
      ]
    }
  ]
}
```

```

        "paramKey": "OPC",
        "paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"
    },
    {
        "paramKey": "IMSI",
        "paramValue": "951999999999999999"
    }
],
"profileType": "My-Add-via-Upp-QSASD",
"eid": "",
"confirmationCode": "",
"smdsAddress": ""
},
{
    "paramKeyValueList": [
        {
            "paramKey": "ICCID",
            "paramValue": "66600066600066600001"
        },
        {
            "paramKey": "KI",
            "paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"
        },
        {
            "paramKey": "OPC",
            "paramValue": "AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122AABBCCDDEEFF1122"
        },
        {
            "paramKey": "IMSI",
            "paramValue": "951999999999999999"
        }
    ],
    "profileType": "My-Add-via-Upp-QSASD",
    "eid": "",
    "confirmationCode": "",
    "smdsAddress": ""
}
],
"header": {
    "functionRequesterIdentifier": "rlpgmeoprrmgpmsfpladsmfpmdsfm",
    "functionCallIdentifier": "batchGenerateByProfileUppParams"
}
}

```

Example Successful Response Body

```
{
    "header": {
        "functionExecutionStatus": {
            "status": "Executed-Success"
        }
    }
}
```

```

},
"batchTaskId": 7811
}

```

Example Failed Response Body

```

{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "2.5",
        "message": "some of the iccid(s) already exists.",
        "subjectIdentifier": "Profile ICCID"
      }
    }
  }
}

```

5.2.3.7 BatchGenerate

Description: To generate AC in batch for available Profiles on the RSP platform. The Profiles must not have been added to a campaign.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/batchGenerateByProfileUppParams	200

Request Parameters

Name	Type	MOC	Description
generateDataInfos	List<GenerateDataInfo>	M	
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.

GenerateDataInfo Domain	Type	MOC	Description
iccid	String	M	Iccid of the Profiles for import
eid	String	O	EID
matchingId	String	O	Unique identifier of the order, will be generated by the caller. If the caller does not generate, the RSP platform will generate it automatically.
confirmationCode	String	O	Confirmation code
smdsAddress	String	O	If the user intends to use SM-DS, the SM-DS address is required here.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "batchGenerate".

Response Parameters

Name	Type	Description
batchTaskId	Long	Batch task ID. The user can query information of the batch task through the ListBatchTaskInfo interface with the Batch task ID.
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
FunctionExecutionStatus Domain	Type	Description

status	enum	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCodeData	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "generateDataInfos": [
    {
      "iccid": "98731982739182747178"
    },
    {
      "iccid": "98731982739182747186"
    }
  ],
  "header": {
    "functionRequesterIdentifier": "c5e5325a-adb9-4b16-bf26-0d2fcf7b1c95",
    "functionCallIdentifier": "batchGenerate"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

```
    }
},
"batchTaskId": 2
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.8",
        "message": "batchGenerate data duplicate",
        "subjectIdentifier": "Profile ICCID"
      }
    }
  }
}
```

5.2.3.8 ListBatchTaskInfo

Description: To query execution results of a batch task from the RSP platform using batchTaskId.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/batchTask/info	200

Request Parameters

Name	Type	MOC	Description
batchTaskId	Long	M	Batch task ID generated by RSP platform
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
pageParam	object	M	Pagination parameter
Header Domain	Type	MOC	Description

functionRequesterId entifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "listBatchTaskInfo".
pageParam Domain	Type	MOC	Description
pageNum	Integer	M	Page number, value range 1-200000
pageSize	Integer	M	Number of detailed tasks in each page, value range 1-1000

Response Parameters

Domain	Type	Description
batchTaskInfo	BatchTaskInfo	Batch task information
batchTaskDetails	List<BatchGenerateDetail>	List of detailed tasks included in the batch task
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
pageParam	object	Pagination parameter
BatchTaskInfo Domain	Type	Description
batchTaskId	long	Batch task ID
taskName	String	Task name
taskType	String	Task type
status	String	Task execution result
total	Integer	Total number of tasks
succeedNum	Integer	Number of successful detailed tasks
failedNum	Integer	Number of failed detailed tasks
createTime	Date	Task creation time

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endTime	Date	Task end time
BatchGenerateDetail Domain	Type	Description
iccid	String	ICCID
eid	String	
activationCode	String	Activation Code
success	Boolean	
errorReason	String	
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in the SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
pageParam Domain	Type	Description
total	Integer	Total number of the detailed tasks
pageNum	Integer	Page number, value range 1-200000
pageSize	Integer	Number of detailed tasks in each page, value range 1-1000
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCodeData	Format defined in the SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code

reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "batchTaskId": 2,
  "pageParam": {
    "pageNum": 1,
    "pageSize": 200
  },
  "header": {
    "functionRequesterIdentifier": "f5a5445c-18d0-45c0-8933-b7d61b8b95f6",
    "functionCallIdentifier": "listBatchTaskInfo"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "batchTaskInfo": {
    "batchTaskId": 2,
    "taskName": "BatchGenerate_202401230903539",
    "taskType": "GenerateByExistsProfile",
    "status": "PROCESSED",
    "total": 2,
    "succeedNum": 2,
    "failedNum": 0,
    "createTime": "2024-01-23T09:03:53.000+0000",
    "endTime": "2024-01-23T09:03:54.000+0000"
  },
  "batchTaskDetails": [
    {
      "success": true,
      "errorReason": null,
      "iccid": "98731982739182747178",
      "eid": null,
      "activationCode": "1$mdp-core.redteatest.com$7562E8481999EEBA0A15F45FB34DB086"
    },
    {
      "success": false,
      "errorReason": "Activation code failed to generate successfully",
      "iccid": "98731982739182747179",
      "eid": null,
      "activationCode": null
    }
  ]
}
```

```
"success": true,  
"errorReason": null,  
"iccid": "98731982739182747186",  
"eid": null,  
"activationCode": "1$smdp-core.redteatest.com$78881B07888EFB3F35F29CD04164A13E"  
}  
],  
"pageParam": {  
"total": 2,  
"pageNum": 1,  
"pageSize": 200  
}  
}
```

Example Failed Response Body

```
{  
"header": {  
"functionExecutionStatus": {  
"status": "Failed",  
"statusCodeData": {  
"subjectCode": "9.1",  
"reasonCode": "2.1",  
"message": "batchTaskId[3] not found in database",  
"subjectIdentifier": "Batch Generate"  
}  
}  
}  
}
```

5.2.3.9 SetOrderToExpire

Description: To set an order to expire, it must be in one of the following status: “Released”, “Linked”, “Allocated”, “Confirmed”, “Downloaded”, “Installed”, “Error”, and “Removed” (including the statuses in the Profile lifecycle except for “Expired” and “Canceled”).

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/expire	200

Request Parameters

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Name	Type	MOC	Description
iccid	String	M	ICCID
eid	String	C	EID
matchingId	String	C	The matchingId SHALL be provided if a MatchingID is known by the Operator for the order that is set to expire.
finalProfileStatusIndicator	String	M	Specifies whether the ICCID can be used continually, including (not case-sensitive): <ul style="list-style-type: none"> ● Available ● Unavailable
header	Object	M	Request header defined in SGP specification, including following: <ul style="list-style-type: none"> ● functionRequesterIdentifier ● functionCallIdentifier
Domain Name	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "expireOrder".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including following: <ul style="list-style-type: none"> ● status ● statusCodeData

Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● Message● subjectIdentifier
Domain		
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "8986046815255534878f",
  "finalProfileStatusIndicator": "Available",
  "header": {
    "functionRequesterIdentifier": "ad4a4873-8e3a-4480-9afe-fecdbeba59ae",
    "functionCallIdentifier": "expireOrder"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "8.2.1",  
        "reasonCode": "3.9",  
        "message": "Unknown",  
        "subjectIdentifier": "Profile ICCID"  
      }  
    }  
  }  
}
```

5.2.3.10 ResetOrderDownloadCount

Description: To reset the numbers of Confirmation Code input attempts, Profile download attempts and successful Profile downloads to ‘0’ for orders with “Released”, “Downloaded”, “Installed ” and “Error” status.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/resetOrder	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterId	String	M	Request ID, which is a randomly generated

ntifier			alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "resetOrder".

Response Parameters

Domain	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{  
    "iccid": "8986046815255534878f",  
    "header": {  
        "functionRequesterIdentifier": "ad1a1873-8e3a-5580-9afe-fecdbeba48ae",  
        "functionCallIdentifier": "resetOrder"  
    }  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    }  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "8.2.1",  
                "reasonCode": "3.9",  
                "message": "Unknown",  
                "subjectIdentifier": "Profile ICCID"  
            }  
        }  
    }  
}
```

5.2.3.11 UpdateProfileParamAndGenerateAC

Description: To update the parameters (such as MSISDN) of a Profile on the RSP platform. The prerequisite is that the Profile must be in “Available” status and have an order generated by ‘AC_MODE’.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/updateProfileParamAndGenerateAC	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile that requires update
paramKeyValueList	List<ParamKeyValue>	M	Parameter key-value that requires update
encAesKey	String	O	<p>AES-256 Key generated by the Operator's system, must be encrypted with KEK PK, then encoded in Base64.</p> <p>When the parameters that need to be updated include KI and OPC, the values of KI and OPC must be encrypted with the AES key.</p>
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
ParamKeyValue Domain	Type	MOC	Description
paramKey	String	M	<p>Name of Profile parameters that require update.</p> <p>The parameters of Profiles imported by UPP that can be updated include:</p> <ul style="list-style-type: none"> • msisdn <p>The parameters of Profiles imported by metadata that can be updated include:</p> <ul style="list-style-type: none"> • msisdn • imsi • ki • opc • pin1 • pin2 • puk1 • puk2 • adm1 • impi • impu • C9 • gid1

			<ul style="list-style-type: none"> • gid2 • profileName • hplmnRatList • ehplmnList • fplmnList • oplmnRatList
paramValue	String	M	Values of Profile parameters that require update, wherein the values of KI and OPC must be encrypted with AES key.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "updateProfileParamAndGenerateAC".

Response Parameters

Name	Type	Description
iccid	String	ICCID of the Profile
activationCode	String	Activation code
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired

statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```

        "paramValue": "1245"
    },
    {
        "paramKey": "impi",
        "paramValue": "5433"
    },
    {
        "paramKey": "impu",
        "paramValue": "4354"
    },
    {
        "paramKey": "C9",
        "paramValue": "5667"
    }
],
"encAesKey": "PhITtzxpHE9E0bDk9kyd+9w/zTzEfGYTst341Jiy8sTJzkpK8wvhn3e5HQRkp2IkkASKLrkabRwGb4yFNvk8HOF33EihJKAnug19Rcbx2zp1paVIPkWGJcVHiGFF1l0Yod/HjRP+DqKNH77dlWCaKguahni+bsFCyhYnLCEQGWXB56vLXdOOf8GOJFsWA99cm5oWruwlyujgQiQ+n5DFVwkWZGGaiwmz5gdSvKzk+V7vSI1GApnqjIEtBjCvY6KJpdRU1WmXzMW6DOYLG1hTcoNPbl/b6uza5TKctk7gEN/e3LgJFa4TiYiHGqguYX931umzs0/44dufysFbpo8CA==",
"header": {
    "functionRequesterIdentifier": "a0b69276-4331-4fdf-b64b-b20ddde721e2",
    "functionCallIdentifier": "updateProfileParamAndGenerateAC"
}
}
}

```

Example Successful Response Body

```
{
    "iccid": "8999999938265938875f",
    "activationCode": "1$rsp-xian.redteaready.cn$52622E87AF08A127415D91AA1A9C062E",
    "header": {
        "functionExecutionStatus": {
            "status": "Executed-Success"
        }
    }
}
```

Example Failed Response Body

```
{
    "header": {
        "functionExecutionStatus": {
            "status": "Failed",
            "statusCodeData": {
                "subjectCode": "0.0.0",
                "reasonCode": "0.0",

```

```
        "message": "Unknown error",
        "subjectIdentifier": null
    }
}
}
}
```

5.2.3.12 GetAppleUniversalLink

Description: To get Apple universal eSIM setup link from the RSP platform using the ICCID of a Released profile (for Apple devices only).

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/getAppleUniversalLink	200

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID
header	Object	M	<p>Request header defined in SGP specification, including:</p> <ul style="list-style-type: none"> • functionRequesterIdentifier • functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	<p>Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.</p>
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "getAppleUniversalLink".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including

		functionExecutionStatus.
link	String	Apple eSIM setup link
Header Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
StatusCodeGen Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "8986046815255534878f",
  "header": {
    "functionRequesterIdentifier": "ad4a4873-8e3a-4480-9afe-fecdbeba59ae",
    "functionCallIdentifier": "getAppleUniversalLink"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "link": "https://esimsetup.apple.com/esim_qrcode_provisioning?carddata=LPA:1$TEST$link_test"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.1",
        "reasonCode": "3.9",
        "message": "Unknown",
        "subjectIdentifier": "Profile ICCID"
      }
    }
  }
}
```

5.2.3.13 GetOrderInfo

Description: To retrieve the detailed information of an order from the RSP Platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/info	200

Request Parameters

Name	Type	MOC	Description
iccid	String	C	ICCID
eid	String	C	EID

matchingId	String	C	matchingId
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "orderInfo".

Response Parameters

Name	Type	Description
orderInfolist	List<OrderInfo>	List of order information
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
OrderInfo Domain	Type	Description
iccid	String	ICCID
orderId	Long	Order ID
msisdn	String	MSISDN
matchingId	String	Unique identifier of the order, which can be generated by the caller. If the caller does not generate, the RSP platform will generate it automatically.
eid	String	Device EID
profileTypeName	String	Profile type name
orderStatus	String	Order status, including: <ul style="list-style-type: none"> • ALLOCATED • LINKED

		<ul style="list-style-type: none"> ● CONFIRMED ● RELEASED ● DOWNLOADED ● INSTALLED ● ERROR
orderType		<p>Order type, including:</p> <ul style="list-style-type: none"> ● AC_MODE ● DEFAULT_AC_MODE ● DS_MODE ● CAMPAIGN_MODE ● PRE_OCCUPY_MODE
updateTime	String	Profile import (modification) time on RSP platform, in the W3C format: YYYY-MM-DDThh:mm:ssTZD
availableDownloadAttempts	Integer	Available number of maximum download attempts
availableCCAttempts	Integer	Available number of maximum confirmation code input attempts
availableDownloadSuccessTimes	Integer	Available number of maximum successful Profile downloads
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	<p>Format defined in SGP specification, including:</p> <ul style="list-style-type: none"> ● status ● statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	<p>Execution result, including:</p> <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCodeData	<p>Format defined in SGP specification, generated when the request execution fails, including:</p> <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code

reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "iccid": "88874987987498799681",
  "eid": "",
  "matchingId": "",
  "header": {
    "functionRequesterIdentifier": "ad4a4873-8a1a-4480-9afe-fecdbeba59ae",
    "functionCallIdentifier": "getOrderInfo"
  }
}
```

Example Successful Response Body

```
{
  "orderInfoList": [
    {
      "iccid": "88874987987498799681",
      "orderId": 5986055,
      "msisdn": "",
      "matchingId": "80101EFF85FDEBEAA6FB917C9D5896C9",
      "eid": null,
      "profileTypeName": "test",
      "orderStatus": "RELEASED",
      "orderType": "AC_MODE",
      "updateTime": "2024-11-18 06:28:44"
    }
  ],
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
```

```
"functionExecutionStatus": {  
    "status": "Failed",  
    "statusCodeData": {  
        "subjectCode": "8.8.5",  
        "reasonCode": "2.3",  
        "message": "One of eid, iccid or matchingId must exist!",  
        "subjectIdentifier": null  
    }  
}
```

5.2.3.14 ClearEID

Description: To clear the EID linked with a released order in the RSP platform using ICCID.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/order/clearEID	200

Request Parameters

Name	Type	MOC	Description
iccid	String	C	ICCID
orderId	Long	C	Order ID
matchingId	String	C	Unique identifier of the order. If the caller does not generate, the RSP platform will generate it automatically.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters

			([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "clearEID".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Message

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```
{  
    "iccid": "89999000000000000012",  
    "orderId": null,  
    "matchingId": "181EDE6CA6DF2A6672D4DE272CDE1E97",  
    "header": {  
        "functionRequesterIdentifier": "3a646b85-a926-423b-b1cb-f4b4ebf3174b",  
        "functionCallIdentifier": "clearEID"  
    }  
}
```

Example Successful Response Message

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    }  
}
```

Example Failed Response Message

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "8.2.1",  
                "reasonCode": "2.1",  
                "message": "No released orders found",  
                "subjectIdentifier": "Download Order"  
            }  
        }  
    }  
}
```

5.2.4 Device Management

5.2.4.1 GetDeviceInfo

Description: To get the detailed information of a device from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/device/info	200

Request Parameters

Name	Type	MOC	Description
eid	String	M	EID of the device
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "deviceInfo".

Response Parameters

Name	Type	Description
eid	String	Device EID
block	boolean	Indicates whether the device is added to blocklist
info	DeviceInfo	Detailed information of the device: <ul style="list-style-type: none"> • imei • tac • deviceName • brand • deviceType
orders	List<DeviceOrder>	List of orders generated by the device, including: <ul style="list-style-type: none"> • iccid • state • createdTime • lastModified • mnold

		<ul style="list-style-type: none"> ● mccmnc ● profileTypeName ● profileClass ● associatedEid ● activationCode ● smdpOid ● smdpAddress ● maxDownloadTime ● maxCCTime ● ppr ● notificationEvent ● reDownloadRule
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Deviceinfo Domain	Type	Description
imei	String	Device IMEI (might be null)
tac	String	Device TAC
deviceName	String	Device module
brand	String	Device brand
deviceType	String	Device type
DeviceOrder Domain	Type	Description
iccid	String	ICCID of queried Profile
state	String	Current Profile status, including: <ul style="list-style-type: none"> ● AVAILABLE ● ALLOCATED ● LINKED ● CONFIRMED ● RELEASED ● DOWNLOADED ● INSTALLED ● ERROR ● ENABLED ● DISABLED ● REMOVED

		<ul style="list-style-type: none"> ● UNAVAILABLE
createdTime	String	Profile import time on RSP platform
lastModified	String	Last modification time of Profile on RSP platform
mnoid	Integer	ID of Operator that the Profile belongs to
mccmnc	String	MCCMNC of Profile
profileTypeName	String	Profile type name
profileClass	String	Profile class, including: <ul style="list-style-type: none"> ● TEST ● PROVISIONING ● OPERATIONAL
associatedEid	String	If the Profile is associated with an EID and the order is not deleted, this parameter will be returned. If the Profile Class is test, it will not be returned.
activationCode	String	AC generated for the Profile
smdpOid	String	OID of the RSP platform
smdpAddress	String	RSP platform address
maxDownloadTime	Integer	Maximum number of downloads
maxCCTime	Integer	Maximum number of confirmation code inputs
maxDownloadSuccessTime	Integer	Maximum successful Profile downloads
ppr	String	Profile policy rules
notificationEvent	List<String>	Enabled event notification, including: <ul style="list-style-type: none"> ● Install ● Delete ● Enable ● Disable
reDownloadRule	Integer	Profile redownload rule
Domain	Type	Description

functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "eid": "352030001001000000000021626950",
  "header": {
    "functionRequesterIdentifier": "02b66b0d-d8eb-4d3f-92b0-9a184d4760d9",
    "functionCallIdentifier": "deviceInfo"
  }
}
```

Example Successful Response Body

```
{
  "eid": "352030001001000000000021626950",
```

```
"block": false,
"info": {
    "imei": null,
    "tac": "00000000",
    "deviceName": null,
    "brand": null,
    "deviceType": null
},
"orders": [
{
    "iccid": "67484444773458839471",
    "state": "DOWNLOADED",
    "createdTime": "2024-01-09 07:37:02",
    "lastModified": "2024-01-09 08:08:35",
    "mnoid": 116,
    "mccmnc": "67378",
    "profileTypeName": "45400",
    "profileClass": "OPERATIONAL",
    "associatedEid": "3520300010010000000000021626950",
    "activationCode": "1$mdp-core.redteatest.com$30BC632D3513CFF889ED8C5762BAD4F4",
    "smdpOid": "1.3.6.1.4.1.50791.2",
    "smdpAddress": "mdp-core.redteatest.com",
    "maxDownloadTime": 100,
    "maxCCTime": 100,
    "maxDownloadSuccessTime": 100,
    "ppr": "000",
    "notificationEvent": [
        "install",
        "enable",
        "disable",
        "delete"
    ],
    "reDownloadRule": 5
},
{
    "iccid": "67484444773458834472",
    "state": "DOWNLOADED",
    "createdTime": "2024-01-09 07:36:49",
    "lastModified": "2024-01-09 08:11:07",
    "mnoid": 116,
    "mccmnc": "67378",
    "profileTypeName": "45400",
    "profileClass": "OPERATIONAL",
    "associatedEid": "3520300010010000000000021626950",
    "activationCode": "1$mdp-core.redteatest.com$73286381DB31046D8EA5F539C48F2A37",
    "smdpOid": "1.3.6.1.4.1.50791.2",
    "smdpAddress": "mdp-core.redteatest.com",
    "maxDownloadTime": 100,
    "maxCCTime": 100,
    "maxDownloadSuccessTime": 100,
    "ppr": "000",
    "notificationEvent": [
        "install",
        "enable",
```

```

        "disable",
        "delete"
    ],
    "reDownloadRule": 5
}
],
"header": {
    "functionExecutionStatus": {
        "status": "Executed-Success"
    }
}
}
}

```

Example Failed Response Body

```

{
    "header": {
        "functionExecutionStatus": {
            "status": "Failed",
            "statusCodeData": {
                "subjectCode": "9.3",
                "reasonCode": "3.8",
                "message": "DEVICE [3520300010010000000000001099034] not found in the database",
                "subjectIdentifier": null
            }
        }
    }
}

```

5.2.4.2 AddDeviceToBlocklist

Description: To add a device to the blocklist. The purpose is to prohibit it from downloading Profile.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/device/blocklist/add	200

Request Parameters

Name	Type	MOC	Description
eid	String	C	Device EID (or TAC) that needs to be added to

			blocklist
tac	String	C	Device TAC (or EID) that needs to be added to blocklist
comment	String	O	Comment for addition (the maximum length is 255 characters)
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addBlock".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired

statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">• subjectCode• reasonCode• Message• subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "eid": "35203000100100000000000021626950",
  "header": {
    "functionRequesterIdentifier": "e6eff5d3-e53c-4185-aeaa-53bbccbe1ca2",
    "functionCallIdentifier": "addBlock"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{"header": {
  "functionExecutionStatus": {
    "status": "Failed", "statusCodeData":
```

```
{
  "subjectCode": "9.3",
  "reasonCode": "3.3",
  "message": "eid has been block",
  "subjectIdentifier": null
}
```

5.2.4.3 DeleteDeviceFromBlocklist

Description: To remove a device from the blocklist in the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/device/blocklist/delete	200

Request Parameters

Name	Type	MOC	Description
eid	String	C	Device EID (or TAC) that need to be removed from blocklist
tac	String	C	Device TAC (or EID) that need to be removed from blocklist
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "deleteBlock".

Response Parameters

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Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● Message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "eid": "3520300010010000000000021626950",
  "header": {
    "functionRequesterIdentifier": "be779e21-e9cf-4b05-ba4e-faa5d4cbdcc8",
    "functionCallIdentifier": "deleteBlock"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "0.0.0",
        "reasonCode": "0.0",
        "message": "Unknown error",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.4.4 ListDeviceBlocklist

Description: To request the RSP platform to return a list of blocked devices.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/device/blocklist/list	200

Request Parameters

Name	Type	MOC	Description
blockType	Integer	0	Blocking type:

			0 - Blocked by EID (default value if not specified) 1 - Blocked by TAC
eid	String	O	EID (required when blockType is 0)
tac	String	O	TAC (required when blockType is 1)
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
pageParam	object	M	Pagination parameters
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "listDeviceBlocklist".
pageParam Domain	Type	MOC	Description
pageNum	Integer	M	Page number, value range 1-200000
pageSize	Integer	M	Number of blocked devices in each page, value range 1-1000

Response Parameters

Domain	Type	Description
deviceBlocklist	List<DeviceBlocklist>	List of blocked devices
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
pageParam	object	Pagination parameters
DeviceBlocklist Domain	Type	Description
imei	String	IMEI

eid	String	eUICC ID
tac	String	TAC
comment	String	Comment for blocklist addition
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
pageParam Domain	Type	Description
total	Integer	Total number of blocked devices
pageNum	Integer	Page number, value range 1-200000
pageSize	Integer	Number of blocked devices in each page, value range 1-1000
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCodeData	Format defined in the SGP specification, generated when the request execution fails, including. <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

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```
{  
    "pageParam": {  
        "pageSize": 20,  
        "pageNum": 1  
    },  
    "header": {  
        "functionRequesterIdentifier": "fb170129-af59-44a9-b1e9-6bd94a97be33",  
        "functionCallIdentifier": "listDeviceBlocklist"  
    }  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    },  
    "deviceBlocklist": [  
        {  
            "imei": null,  
            "eid": "89049032004008882600011125412360",  
            "tac": null,  
            "comment": "43252134"  
        }  
    ],  
    "pageParam": {  
        "total": 1,  
        "pageNum": 1,  
        "pageSize": 20  
    }  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "9.1",  
                "reasonCode": "2.1",  
                "message": "Page param should be present",  
                "subjectIdentifier": "9.1"  
            }  
        }  
    }  
}
```

```

    }
}
}
```

5.2.5 MNO Management

5.2.5.1 GetKEKPK

Description: To get the KEK Public Key (PK) that the RSP platform generated for the Operator.

NOTE:

The RSP platform generates an asymmetric RSA-2048 key pair for each Operator to protect AES key during data transmission.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/kek	200

Request Parameters

Name	Type	MOC	Description
header	Object	M	Request header defined in the SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain			
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "mnoKek".

Response Parameters

Name	Type	Description
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kekPk	String	KEK PK (type: RSA-2048) generated for Operator by the RSP platform, must be encoded in Base64 format
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in the SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● Message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "221c0851-78ca-4f90-aa8c-3dd03f15db93",
    "functionCallIdentifier": "mnoKek"
  }
}
```

Example Successful Response Body

```
{
  "kekPk": "MIIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIIBCgKCAQEA2IUur00i0omtNLNUQSPQuclcOPZImwDjiW709cJ8FxbTA8KbeBBfR0iqRC3+oET3mOOMykfZzX888ao5NseSDsP7eKn/pW0xGdMIRKKQJ24+gsfhMYr5nFEQmqZ2nO1QY6vV1th9+F1atGLGxNtPKwuVU7zkOFsjXutrTUPcdsEM2AOZjZq5jca7tt+KZCgAVOpYJGnRd1YkG4zRzNw3/Kzt2J1Sy5GtKeMEH2oPt2tR/Jcvqiy+8rVI1viyZFtyg6PIQbjNpjZFFFfQJtQDmjX0Oz5EvfEJlXeogggggULfqKYR1zn77/XG1VRxwyM2sAa6AWV9hwbShRmsFUNQIDAQAB",
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "0.0.0",
        "reasonCode": "0.0",
        "message": "Unknown error",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.5.2 AddTransportKey

Description: To add an AES Transport Key to the RSP platform for future use.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/transportKey/add	200

Request Parameters

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Name	Type	MOC	Description
name	String	M	Key name
type	String	M	Key type, including: • DES-64 • AES-128 • AES-192 • AES-256 • TripleDES-128 • TripleDES-192
encKey	String	M	Key encrypted with KEK PK, then encoded in Base64 format
encryptMode	String	M	Encryption mode, including: • ECB • CBC • CTR • OFB • CFB
padding	String	M	Padding mode, including: • NoPadding • PKCS5Padding • ISO10126Padding
iv	String	C	Initialization Vector (IV), the length should be 16 characters for DES encryption and 32 characters for AES encryption. $^{([A-Fa-f0-9]\{16\} [A-Fa-f0-9]\{32\})\$}$ It is mandatory for all non-ECB encryption modes.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ($[a-zA-Z0-9]\{10,32\}$), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "transportKeyAdd".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification: <ul style="list-style-type: none">● functionExecutionStatus
Domain	Type	Description
functionExecutionStat us	ExecutionStatus	Format defined in the SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "name": "K4",
  "type": "DES-64",
  "encKey": "ohCw8wlnS/c+AYjmakvj/55lmyAj9f8r1zKUMKonFK86mm4tkBzf/lYX8+OtyN8BK6e7qevYvpP3DsbvizlEhnuZBCTKIPFDyfzRCsgbxj
```

```
77c9sAa1AFx1WTAnmba12/BqsZvQOI47SzfyJuExYvr/j59S/B8BLUO2kZyAKf+ygPLStiVpVaFGHPLvUhX6EJICIWGXWO2X7Jjs9BpO
3Qmdrv+Q==",
"encryptMode": "ECB",
"padding": "NoPadding",
"iv": "",
"header": {
"functionRequesterIdentifier": "8b37fb9d-8053-4bd5-b384-96a0783a5867",
"functionCallIdentifier": "transportKeyAdd"
}
}
```

Example Successful Response Body

```
{
"header": {
"functionExecutionStatus": {
"status": "Executed-Success"
}
}
}
```

Example Failed Response Body

```
{
"header": {
"functionExecutionStatus": {
"status": "Failed",
"statusCodeData": {
"subjectCode": "9.2",
"reasonCode": "3.8",
"message": "The [K4] TransportKey already exists!",
"subjectIdentifier": null
}
}
}
}
```

5.2.5.3 AddOTATransportKey

Description: To add a new OTA Transport Key to the RSP platform for future use.

Method	Path	Status Code
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POST

{rootPath}/redtea/rsp2/es2plus/mno/otaTransportKey/add

200

Request Parameters

Name	Type	MOC	Description
name	String	M	Key name
type	String	M	Key type, including: <ul style="list-style-type: none">● DES-64● AES-128● AES-192● AES-256● TripleDES-128● TripleDES-192
encKey	String	M	Key encrypted with KEK PK, then encoded in Base64
encryptMode	String	M	Encryption mode, including: <ul style="list-style-type: none">● ECB● CBC● CTR● OFB● CFB
padding	String	M	Padding mode, including: <ul style="list-style-type: none">● NoPadding● PKCS5Padding● ISO10126Padding
iv	String	C	Initialization Vector (IV), the length should be 16 characters for DES encryption and 32 characters for AES encryption. ^([A-Fa-f0-9]{16} [A-Fa-f0-9]{32})\$ It is mandatory for all non-ECB encryption modes.
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally

			correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "otaTransportKeyAdd".

Response Parameters

Name	Type	Description
header	Object	Request header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

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```
{  
    "name": "K4",  
    "type": "DES-64",  
    "encKey":  
        "ohCw8wlnS/c+AYjmakvj/55ImyAj9f8r1zKUMKonFK86mm4tkBzf/lYX8+0tyN8BK6e7qevYvpP3DsbvizlEhnuZBCTKIPFDyfzRCsgb  
        xj77c9sAa1AFx1WTAnmba12/BqsZvQOI47SzfyJuExYvr/j59S/B8BLUO2kZyAKf+ygPLStiVpVaFGHPLvUhX6EJICIWGXWO2X7Jjs9B  
        pO3Qmdrv+Q==",  
        "encryptMode": "ECB",  
        "padding": "NoPadding",  
        "iv": "",  
        "header": {  
            "functionRequesterIdentifier": "8b37fb9d-8153-4bd5-b384-96a0783a5861",  
            "functionCallIdentifier": "otaTransportKeyAdd"  
        }  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    }  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "9.2",  
                "reasonCode": "3.8",  
                "message": "The [K4] OTA TransportKey already exists!",  
                "subjectIdentifier": null  
            }  
        }  
    }  
}
```

5.2.5.4 DeleteTransportKey

Description: To delete a transport key from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/transportKey/delete	200

Request Parameters

Name	Type	MOC	Description
name	String	M	Key name
header	Object	M	Request header defined in the SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "transportKeyDelete".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description

status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "name": "K4",
  "header": {
    "functionRequesterIdentifier": "28d126b5-4336-421b-bd8f-945a44904f1a",
    "functionCallIdentifier": "transportKeyDelete"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "9.2",
        "reasonCode": "3.8",
        "message": "TRANSPORT_KEY [K4] not found in the database",
        "subjectIdentifier": null
      }
    }
  }
}
```

5.2.5.5 ListTransportKey

Description: To request the RSP platform to return a list of all the available transport keys.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/transportKey/list	200

Request Parameters

Name	Type	MOC	Description
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain			
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "transportKeyList".

Response Parameters

Name	Type	Description
transportKeyList	List<KeyInfos>	List of created transport keys, including: <ul style="list-style-type: none">● name● type
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
name	String	Key name
type	String	Key type: <ul style="list-style-type: none">● DES-64● AES-128● AES-192● AES-256● TripleDES-128● TripleDES-192
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier

Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{  
  "header": {  
    "functionRequesterIdentifier": "62c5630f-c01d-40bd-90fa-0266432123c5",  
    "functionCallIdentifier": "transportKeyList"  
  }  
}
```

Example Successful Response Body

```
{  
  "transportKeyList": [  
    {  
      "name": "test",  
      "type": "DES-64"  
    }  
  ],  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  }  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "0.0.0",  
        "reasonCode": "0.0",  
        "message": "Function execution failed."  
      }  
    }  
  }  
}
```

```
        "message": "Unknown error",
        "subjectIdentifier": null
    }
}
}
}
```

5.2.5.6 AddOP

Description: To add an OP to the RSP platform for use in future Profile generation.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/op/add	200

Request Parameters

Name	Type	MOC	Description
name	String	M	OP name
type	String	M	OP value type, in Hex string format
encOP	String	M	OP encrypted with KEK PK, then encoded in Base64 format
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of “OPAdd”.

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "name": "123",
  "type": "HexString",
  "header": {
    "functionRequesterIdentifier": "28dc9103-634c-40ce-8926-835a92b9416e",
    "functionCallIdentifier": "OPAdd"
  },
  "encOP": "uJKOzarTwRAi2g1ifXRCgc9aRbNWfK1jea/dUFdR4RJDl0zt0GQbJESS2kDEXWG2NWfYY/XAykEliYxOeYba5Y/zXTLGH3juzkrGuFE9"
}
```

```
F4MqbvhXZQn4LZJloISgGNFhk/7Pqke3hQ7ANsk6hl4fs1666p6IAu/bQ94APHi5bAmwRE/nKhwElA++IHDaLfcUC/Zuh0NkRLM  
SCJs+JIJDbzBp3oUFY7amCQ=="  
}
```

Example Successful Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  }  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "9.5",  
        "reasonCode": "2.1",  
        "message": "OP already exists",  
        "subjectIdentifier": "123"  
      }  
    }  
  }  
}
```

5.2.5.7 DeleteOP

Description: To delete an OP from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/op/delete	200

Request Parameters

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Name	Type	MOC	Description
name	String	M	OP name
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "OPDelete".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message

		● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{  
  "name": "123",  
  "header": {  
    "functionRequesterIdentifier": "d7065a63-697d-4d79-a736-edc9300300c3",  
    "functionCallIdentifier": "OPDelete"  
  }  
}
```

Example Successful Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  }  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "9.5",  
        "reasonCode": "2.1",  
        "message": "OP not exist",  
        "subjectIdentifier": "123"  
      }  
    }  
  }  
}
```

```

    }
}
}
```

5.2.5.8 ListOP

Description: To request the RSP platform to return a list of all the available OPs.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/mno/op/list	200

Request Parameters

Name	Type	MOC	Description
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain			
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "OPList".

Response Parameters

Name	Type	Description
opList	List<OPIInfos>	List of available OPs, including: <ul style="list-style-type: none"> • name • type
header	Object	Response header defined in SGP specification, including

		functionExecutionStatus.
OPInfos Domain	Type	Description
name	String	OP name
type	String	OP value type, in Hex string format
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in the SGP specification, including: <ul style="list-style-type: none">● status● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">● Executed-Success● Failed● Executed-WithWarning● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">● subjectCode● reasonCode● message● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "header": {
    "functionRequesterIdentifier": "0af07411-4ad7-491c-b519-a04c933fa419",
    "functionCallIdentifier": "OPList"
  }
}
```

Example Successful Response Body

```
{  
  "opList": [  
    {  
      "name": "123",  
      "type": "HexString"  
    }  
  ],  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  }  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "9.1",  
        "reasonCode": "2.1",  
        "message": "invalid signature",  
        "subjectIdentifier": null  
      }  
    }  
  }  
}
```

5.2.6 Campaign Management

5.2.6.1 AddResource

Description: To add Profiles to a campaign on the RSP platform.

NOTE:

Only unallocated Profiles are allowed to be added to campaigns that are not ended. The Profiles in the same batch are subject to ACID compliance (either all succeed or all fail).

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/resource/add	200

Request Parameters

Domain	Type	MOC	Description
campaignCode	String	M	Campaign code
iccid	List<String>	M	List of ICCIDs to be added to campaign
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "addCampaignResource".

Response Parameters

Domain	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData

Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">• Executed-Success• Failed• Executed-WithWarning• Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">• subjectCode• reasonCode• message• subjectIdentifier
Domain		
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "campaignCode": "6524616945682369",
  "iccid": [
    "36477348834898935631",
    "36477348834898935623"
  ],
  "header": {
    "functionRequesterIdentifier": "c93bcc2c-5c66-4a1c-97f7-31d984ae26f8",
    "functionCallIdentifier": "addCampaignResource"
  }
}
```

Example Successful Response Body

```
{
  "header": {
```

```
"functionExecutionStatus": {  
    "status": "Executed-Success"  
}  
}  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "9.1",  
                "reasonCode": "2.1",  
                "message": "iccid should be present",  
                "subjectIdentifier": "9.1"  
            }  
        }  
    }  
}
```

5.2.6.2 RemoveResource

Description: To remove a Profile from a campaign created on the RSP platform.

NOTE:

If the Profile does not exist in the campaign, an error will be returned. Only Profiles with the Idle, Locked, or Allocated status can be removed. The Profiles removed in the same batch are also subject to ACID compliance (meaning either all succeed or all fail).

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/resource/remove	200

Request Parameters

Domain	Type	MOC	Description
iccid	List<String>	M	List of ICCIDs to be removed from the campaign

campaignCode	String	M	Campaign code
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "removeCampaignResource".

Response Parameters

Domain	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCodes	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • Message

		● subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "campaignCode": "6524616945682369",
  "iccid": [
    "36477348834898935631",
    "36477348834898935623"
  ],
  "header": {
    "functionRequesterIdentifier": "f0031834-1da6-48cb-9886-7fbda42b762c",
    "functionCallIdentifier": "removeCampaignResource"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "code": "400-BAD REQUEST"
      }
    }
  }
}
```

```
        "subjectCode": "9.4",
        "reasonCode": "3.9",
        "message": "invalid campaign code 65246169456823692",
        "subjectIdentifier": "65246169456823692"
    }
}
}
```

5.2.6.3 UnlockResource

Description: To unlock ‘Locked’ Profiles in a campaign. After unlocking, the Profile status will be changed from ‘Locked’ to ‘Idle’.

NOTE:

If the Profile is in Idle status, the platform will directly return a successful unlocking response. If it has not been added to the campaign, an error response will be returned. If data error occurs , the unlocking task will not be executed.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/resource/unlock	200

Request Parameters

Domain	Type	MOC	Description
iccid	List<String>	M	List of ICCIDs to be unlocked
campaignCode	String	M	Campaign code
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally

			correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "unlockCampaignResource".

Response Parameters

Domain	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{  
    "campaignCode": "6524616945682369",  
    "iccid": [  
        "36477348834898935631",  
        "36477348834898935623"  
    ],  
    "header": {  
        "functionRequesterIdentifier": "c700465a-bfef-4c41-9f2c-3e1ae5a37af2",  
        "functionCallIdentifier": "unlockCampaignResource"  
    }  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    }  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "9.4",  
                "reasonCode": "3.9",  
                "message": "invalid campaign code 65246169456823691",  
                "subjectIdentifier": "65246169456823691"  
            }  
        }  
    }  
}
```

5.2.6.4 CreateCampaign

Description: To create a new campaign on the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/create	200

Request Parameters

Domain	Type	MOC	Description
campaignName	String	M	Campaign name with maximum length of 30 characters
detail	String	M	Campaign description with maximum length of 200 characters
profileTypeName	String	M	Name of the profileType associated with the campaign
autoEndTime	String	O	Automatic end time (UTC time) of the campaign. A campaign will not end automatically when no value is input (or the input value is "null").
reDownload	Boolean	O	Automatic end time (UTC time) of the campaign. The campaign will not end automatically if no value is input (or the input value is "null").
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.

Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "createCampaign".

Response Parameters

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Domain	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
campaignCode	String	Campaign code for generating AC
mockAc	String	AC for downloading Profile from the campaign
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "campaignName": "test1",
```

```
"detail": "test1",
"profileTypeName": "type1",
"header": {
    "functionRequesterIdentifier": "260a5bec-f725-4f36-95a2-2addc01ebd51",
    "functionCallIdentifier": "createCampaign"
}
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "campaignCode": "1238538925057729",
  "mockAc": "1$smdp-core.redteatest.com$1238538925057729"
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "8.2.5",
        "reasonCode": "2.1",
        "message": "profile type not exist",
        "subjectIdentifier": "test121"
      }
    }
  }
}
```

5.2.6.5 ChangeCampaignState

Description: To change the status (END, IN_PROGRESS, SUSPEND) of a campaign created on the RSP platform, the status flow is illustrated in Annex B.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/state	200

Request Parameters

Domain	Type	MOC	Description
campaignCode	String	M	Campaign code
targetState	String	M	Target status, including: <ul style="list-style-type: none">• END (Campaign is ended)• IN_PROGRESS (Campaign is in progress)• SUSPEND (Campaign is suspended)
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "changeCampaignState".

Response Parameters

Domain	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">• status• statusCodeData

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Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none">• Executed-Success• Failed• Executed-WithWarning• Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">• subjectCode• reasonCode• message• subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "campaignCode": "1238538925057729",
  "targetState": "IN_PROGRESS",
  "header": {
    "functionRequesterIdentifier": "e6e1d1af-e145-4a8e-9aae-9556993ac681",
    "functionCallIdentifier": "changeCampaignState"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

}

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "9.1",
        "reasonCode": "2.1",
        "message": "invalid target state",
        "subjectIdentifier": "9.1"
      }
    }
  }
}
```

5.2.6.6 ListCampaignInfo

Description: To query information of all the created campaigns from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/info/list	200

Request Parameters

Domain	Type	MOC	Description
name	String	O	Campaign name
state	String	O	Target status, including: • END (Campaign is ended) • IN_PROGRESS (Campaign is in progress) • SUSPEND (Campaign is suspended)
campaignCode	String	O	Campaign code
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.

pageParam	object	M	Pagination parameters
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "listCampaignInfo".
Domain	Type	MOC	Description
total	Integer		Total number of campaigns
pageNum	Integer	required	Page number, value range 1-10000
pageSize	Integer	required	Number of campaigns on each page, value range 1-1000

Response Parameters

Domain	Type	Description
campaignList	List<CampaignInfo>	List of campaigns
pageParam	object	Pagination parameters
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> status statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> Executed-Success Failed Executed-WithWarning

		<ul style="list-style-type: none"> • Expired
statusCodeData	StatusCode	<p>Format defined in SGP specification, generated when the request execution fails, including:</p> <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier
CampaignInfo Domain	Type	Description
name	String	Campaign name
detail	String	Campaign description
campaignCode	String	MatchingId of the campaign
mockAc	String	AC for Profile download from the campaign
state	String	Campaign status, including: <ul style="list-style-type: none"> • END (Campaign is ended) • IN_PROGRESS (Campaign is in progress) • SUSPEND (Campaign is suspended)
resourceStateCount	Map<String, Integer>	Key-value pair, consists of status and number of Profiles in campaign
updateDate	Date	Data update time
createdDate	Date	Create time
profileTypeName	String	Associated profileType of the campaign

Example Request Body

```
{
}
```

```
"pageParam": {  
    "pageSize": 20,  
    "pageNum": 1  
},  
"header": {  
    "functionRequesterIdentifier": "e2865a6b-5486-4fd0-9fef-1e78c26cf094",  
    "functionCallIdentifier": "listCampaignInfo"  
}  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    },  
    "campaignList": [  
        {  
            "name": "test10261610",  
            "detail": "test_campaign",  
            "campaignCode": "9670081324716769",  
            "mockAc": "1$mdp-core.redteatest.com$9670081324716769",  
            "state": "IN_PROGRESS",  
            "resourceStateCount": {  
                "LOCKED": 1  
            },  
            "updateDate": "2024-01-15T10:37:01.000+0000",  
            "createdDate": "2024-01-15T10:37:01.000+0000",  
            "profileTypeName": "apn"  
        }  
    ],  
    "pageParam": {  
        "total": 1,  
        "pageNum": 1,  
        "pageSize": 20  
    }  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "code": 404,  
                "message": "Resource not found"  
            }  
        }  
    }  
}
```

```

    "subjectCode": "0.0.0",
    "reasonCode": "0.0",
    "message": "Unknown error",
    "subjectIdentifier": null
  }
}
}
}

```

5.2.6.7 ListCampaignResourceInfo

Description: To request the RSP platform to return a list of Profiles in all the campaigns that meet the retrieval conditions.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/resource/list	200

Request Parameters

Domain	Type	MOC	Description
name	String	O	Campaign name
state	String	O	Code of Profile status in campaign: • IDLE: 0 • ALLOCATED: 1 • INSTALLED: 2 • LOCKED: 3
campaignCode	String	O	Campaign code
iccid	String	O	ICCID of the Profile
header	Object	M	Request header defined in the SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
pageParam	object	M	Pagination parameters
Domain	Type	MOC	Description

functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "listResourceInfo".
Domain	Type	MOC	Description
total	Integer		Total number of Profiles
pageNum	Integer	M	Page number, value range 1-10000
pageSize	Integer	M	Number of campaigns on each page, value range 1-1000

Response Parameters

Domain	Type	Description
resourceList	List<resourceInfo>	List of Profiles in all the campaigns
pageParam	object	Pagination parameter
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the

		request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier
CampaignInfo Domain	Type	Description
iccid	String	ICCID of the Profile
currentEid	String	EID of the linked device
allocatedTimes	Integer	Number of Profile allocation times
installedTimes	Integer	Number of Profile installation times
state	String	Profile status: <ul style="list-style-type: none"> • IDLE • ALLOCATED • INSTALLED • LOCKED
updateDate	Date	Data update time
createdDate	Date	Creation time

Example Request Body

```
{
  "pageParam": {
    "pageSize": 20,
    "pageNum": 1
  },
  "header": {
    "functionRequesterIdentifier": "3a06d4bb-849a-463b-aa57-d4aa988aad1a",
    "functionCallIdentifier": "listResourceInfo"
  }
}
```

```
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  },
  "resourceInfoList": [
    {
      "iccid": "78378478893489903490",
      "currentEid": "3520300010010000000000017443146",
      "allocatedTimes": 1,
      "installedTimes": 1,
      "state": "LOCKED",
      "updateDate": "2024-01-16T06:37:38.000+0000",
      "createdDate": "2024-01-15T10:38:12.000+0000"
    }
  ],
  "pageParam": {
    "total": 1,
    "pageNum": 1,
    "pageSize": 20
  }
}
```

Example Failed Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Failed",
      "statusCodeData": {
        "subjectCode": "9.1",
        "reasonCode": "2.1",
        "message": "Page param should be present",
        "subjectIdentifier": "9.1"
      }
    }
  }
}
```

5.2.6.8 DeleteCampaign

Description: To delete a campaign that is empty and has ended in the lifecycle from the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/delete	200

Request Parameters

Name	Type	MOC	Description
campaignCode	String	M	Campaign code
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "deleteCampaign".

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain Name	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
Domain Name	Type	Description

status	String	Execution status, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier
Domain Name	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

```
{
  "campaignCode": "11111111111111",
  "header": {
    "functionRequesterIdentifier": "e6e1d1af-e145-4a8e-9aae-9556993ac681",
    "functionCallIdentifier": "changeCampaignState"
  }
}
```

Example Successful Response Body

```
{
  "header": {
    "functionExecutionStatus": {
      "status": "Executed-Success"
    }
  }
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "9.4",  
        "reasonCode": "3.8",  
        "message": "Only empty campaign can be deleted",  
        "subjectIdentifier": "1111111111111111"  
      }  
    }  
  }  
}
```

5.2.6.9 CreateEIDWhitelistForCampaign

Description: To add EID of device that is allowed to download campaign resources (Profiles) to the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/campaign/allowEid/add	200

Request Parameters

Name	Type	MOC	Description
eid	String	M	EID of the device
header	Object	M	Request header defined in SGP specification, including functionRequesterIdentifier and functionCallIdentifier.
Header Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.

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functionCallIdentifier	String	M	Interface identifier, with a fixed value of "AddAllowCampaignEID".
------------------------	--------	---	--------------------------------------------------------------------

Response Parameters

Name	Type	Description
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Domain	Type	Description
functionExecutionStatus	ExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> ● status ● statusCodeData
Domain	Type	Description
status	String	Execution result, including: <ul style="list-style-type: none"> ● Executed-Success ● Failed ● Executed-WithWarning ● Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> ● subjectCode ● reasonCode ● message ● subjectIdentifier

Example Request Body

```
{
  "eid": "123123123123131313132123",
  "header": {
    "functionRequesterIdentifier": "3a06d4bb-849a-463b-aa57-d4aa988aad1a",
    "functionCallIdentifier": "AddAllowCampaignEID"
  }
}
```

Example Successful Response Body

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```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  }  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "9.1",  
        "reasonCode": "2.1",  
        "message": "eid should be present",  
        "subjectIdentifier": "9.1"  
      }  
    }  
  }  
}
```

5.2.7 Check System Health Status

5.2.7.1 GetHealthStatus

Description: To check the health status of core service, management service and database service of the RSP platform.

Method	Path	Status Code
POST	{rootPath}/redtea/rsp2/es2plus/health/status	200

Request Parameters

None.

Response Parameters

Domain	Type	Description
activityInfos	List<Activityinfo>	List of service status
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
Activityinfo Domain	Type	Description
serverName	String	Service name
status	String	Service status, including: <ul style="list-style-type: none"> • UP • DOWN
description	String	Service description
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none"> • status • statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none"> • Executed-Success • Failed • Executed-WithWarning • Expired
statusCodeData	StatusCodeData	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none"> • subjectCode • reasonCode • message • subjectIdentifier
StatusCodeData Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error

subjectIdentifier	String	Subject identifier
-------------------	--------	--------------------

Example Request Body**Example Successful Response Body**

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Executed-Success"  
    }  
  },  
  "activityInfos": [  
    {  
      "serverName": "smdp core",  
      "status": "UP",  
      "description": "core services of the smdp"  
    }  
  ]  
}
```

Example Failed Response Body

```
{  
  "header": {  
    "functionExecutionStatus": {  
      "status": "Failed",  
      "statusCodeData": {  
        "subjectCode": "11.1",  
        "reasonCode": "3.9",  
        "message": "server health status is unknown",  
        "subjectIdentifier": "11.1"  
      }  
    }  
  }  
}
```

5.2.8 Query Transactions

5.2.8.1 GetTransactionList

Description: To request the RSP platform to return a list of transaction logs.

Request Parameters

Name	Type	MOC	Description
iccid	String	M	ICCID of the Profile
header	Object	M	Request header defined in SGP specification, including: <ul style="list-style-type: none">• functionRequesterIdentifier• functionCallIdentifier
Domain	Type	MOC	Description
functionRequesterIdentifier	String	M	Request ID, which is a randomly generated alphanumeric string of length between 10 and 32 characters ([a-zA-Z0-9]{10,32}), should ideally correspond to the Request ID present in the HTTPS header.
functionCallIdentifier	String	M	Interface identifier, with a fixed value of "listTransaction".

Response Parameters

Name	Type	Description
transactionInfoList	List<TransactionInfo>	List of returned transaction logs
header	Object	Response header defined in SGP specification, including functionExecutionStatus.
TransactionInfo Domain	Type	Description
id	Long	ID of the returned transaction log
iccid	String	ICCID of the Profile

orderId	Long	Order ID
state	String	Transaction status, including: <ul style="list-style-type: none">• Initiated• Authenticated• Get_bpp• Error• Canceled
createdDate	String	Transaction log creation time
updateDate	String	Transaction log update time
Header Domain	Type	Description
functionExecutionStatus	FunctionExecutionStatus	Format defined in SGP specification, including: <ul style="list-style-type: none">• status• statusCodeData
FunctionExecutionStatus Domain	Type	Description
status	enum	Execution result, including: <ul style="list-style-type: none">• Executed-Success• Failed• Executed-WithWarning• Expired
statusCodeData	StatusCode	Format defined in SGP specification, generated when the request execution fails, including: <ul style="list-style-type: none">• subjectCode• reasonCode• Message• subjectIdentifier
StatusCodeGen Domain	Type	Description
subjectCode	String	Subject code
reasonCode	String	Reason code
message	String	Detailed information of the error
subjectIdentifier	String	Subject identifier

Example Request Body

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```
{  
    "iccid": "26367237882388238247",  
    "header": {  
        "functionRequesterIdentifier": "90427cb7-079b-425a-ad29-a64489f59dac",  
        "functionCallIdentifier": "listTransaction"  
    }  
}
```

Example Successful Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Executed-Success"  
        }  
    },  
    "transactionInfoList": [  
        {  
            "id": 738868,  
            "iccid": "26367237882388238247",  
            "orderId": 1608367,  
            "state": "ERROR",  
            "createdDate": "2024-01-15 09:16:30",  
            "updateDate": "2024-01-15 09:16:32"  
        },  
        {  
            "id": 738867,  
            "iccid": "26367237882388238247",  
            "orderId": 1608367,  
            "state": "GET_BPP",  
            "createdDate": "2024-01-15 09:06:05",  
            "updateDate": "2024-01-15 09:06:13"  
        }  
    ]  
}
```

Example Failed Response Body

```
{  
    "header": {  
        "functionExecutionStatus": {  
            "status": "Failed",  
            "statusCodeData": {  
                "subjectCode": "9.1",  
                "reasonCode": "2.1",  
                "message": "must not be blank",  
            }  
        }  
    }  
}
```

```
        "subjectIdentifier": "9.1"  
    }  
}  
}  
}
```



Annexes

Annex A: Error Codes

API	Subject Code	Reason Code	SubjectIdentifier	Message	Description
DownloadOrder	1.6	2.3	Parameters	Conditional Element Missing	ICCID and profileType cannot both be null.
	8.1.1	2.1	EID	EID is invalid	EID is invalid!
	8.2.1	3.3	Profile ICCID	Already in Use	The Profile has been allocated to (or linked with) a device (or it has been added to Campaign).
	8.2.1	3.9	Profile ICCID	Unknown	The ICCID does not exist!
	8.2.5	3.7	Profile Type	Unavailable	No available profiles are found for this profile type.
	8.2.5	3.9	Profile Type	Unknown	The profileType does not exist!
ConfirmOrder	1.2	4.2	Download Order	Download Order Not Exist	The Order does not exist! Please call DownloadOrder first.
	1.6	2.3	Parameters	Conditional Element Missing	ICCID cannot be null.
	8.1.1	2.1	EID	EID is invalid	EID is invalid!
	8.1.1	2.2	EID	Mandatory Element Missing	EID cannot be null.
	8.1.1	3.10	EID	Invalid Association	The input EID does not match the linked EID.
	8.2.1	1.2	Profile ICCID	Not Allowed	The operation is only allowed for Profile in 'Allocated' or 'Linked' status.
	8.2.1	3.9	Profile ICCID	Unknown	The ICCID does not exist!
	8.2.6	2.1	MATCHING_ID	Invalid format of matchingId	The matchingId must be 10~50 characters in length, and shall consist only of uppercase alphanumeric characters (0-9, A-Z) and the "-" in any combination.
	8.2.6	3.3	MATCHING_ID	Already in Use (Uniqueness)	The matchingId already exists!

	8.9	4.2	8.9	Unrecognized SM-DS response	The SM-DS Server is not responding.
	8.9.1	2.1	SM-DS address	SM-DS address is invalid	In default AC mode, the smdsAddress must be null.
	8.9.1	5.1	8.9.1	Indicates that the smdsAddress is invalid or not reachable	The smdsAddress is invalid or the SM-DS server is not accessible.
CancelOrder	1.6	3.9	finalProfileStatusIndicator	Unknown	The parameter finalProfileStatusIndicator is invalid!
	8.1.1	2.1	EID	EID is invalid	EID is invalid!
	8.1.1	3.10	EID	Invalid Association	The input EID does not match the linked EID.
	8.2.1	3.3	Download Order	Download Order not Exist	The operation is only allowed for Profile with 'Allocated', 'Linked', 'Confirmed' and 'Released' status.
	8.2.1	3.9	Profile ICCID	Unknown	The ICCID does not exist!
	8.2.6	3.10	Matching ID	Invalid Association	The input MatchingID does not match the MatchingID of the order.
ReleaseProfile	8.2.1	3.5	Download Order	Download Order not Exist	Two possibilities exist: 1) No order found to release! Please call confirmOrder first. 2) The order has already been released.
	8.2.1	3.9	Profile ICCID	Unknown	The ICCID does not exist!
	8.9	4.2	SM-DS	Unrecognized SM-DS response	The SM-DS Server is not responding.
	8.9.1	5.1	SM-DS address	Indicate that the smdsAddress is invalid or not reachable	The smdsAddress is invalid or the SM-DS server is not accessible.
AddProfile2 (addByMeta)	8.2	3.3	[iccid]	Profile is existed	The ICCID already exists!
	8.2.9	2.1	null	decrypt imsi/ki/opc failed	The IMSI, KI, or OPC decryption has failed.
	8.2	3.8.3	[iccid]	Profile add repeatedly	Repeated ICCID!
	8.2.5	3.7	null	ProfileType [xxx] not found in the database	The profileType does not exist in the database!

GetProfileInfo	8.2.1	3.7	null	ICCID [xxx] not found in the database	The ICCID does not exist!
	8.2.5	3.7	null	ProfileType [xxx] not found in the database	The profileType does not exist!
DeleteProfile	8.2	3.8	null	Failed to delete the Profile by ICCID [xxx].	The profile deletion using the ICCID has failed.
	8.2.1	3.8	null	ICCID [xxx] already allocated.	The Profile is already in use. Only Profiles with 'Available', 'Unavailable', and 'Error' status can be deleted.
UpdateProfileParam	8.2.1	3.9	Profile ICCID	Unknown	Unknown ICCID.
	8.2	3.8	Profile	profile have been downloaded	The Profile has already been downloaded. Only Profiles with 'Available', 'Allocated', 'Linked', 'Confirmed' and 'Released' status can be updated.
	8.2.9	2.1	null	decrypt ki/opc failed	The KI or OPC decryption has failed.
	8.2.11	3.1	[iccid]	The Profile is imported by UPP, only MSISDN can be updated.	The Profile is imported by UPP, only MSISDN can be updated.
	8.2.12	3.1	[iccid]	The Profile is imported by metadata, only MSISDN, IMSI, KI, OPC, PIN, PUK, ADM 1, IMPU, IMPI and C9 can be updated.	The Profile is imported by metadata, only MSISDN, IMSI, KI, OPC, PIN, PUK, ADM 1, IMPU, IMPI and C9 can be updated.
	8.2.13	3.1	[iccid]	Only Profiles encrypted by Session Key can be updated.	Only Profiles encrypted with the session key can be updated.
	8.3	3.8	[iccid]	An error occurred during updating the data, please contact Redtea Mobile technical engineer.	An error occurred during data update. Please contact Redtea Mobile technical support engineer.
	8.2.12	3.1	[iccid]	[paramKey] param value verification fail.	The [paramKey] value verification has failed.
	9.1	2.1	9.1	iccid max size is 20	The length of ICCID must be between 18-20 digits.
	9.1	2.1	9.1	iccid should not be null	The ICCID cannot be null.

	9.1	2.1	9.1	paramKeyValueList should be present	The paramKeyValueList must exist.
AddByUpp	8.2.1	3.3	null	ICCID [iccid] already exists.	The ICCID already exists!
ResetProfileState	8.2.1	3.7	null	ICCID [iccid] not found in the database.	The ICCID does not exist!
	8.2	3.8	null	Profile State can't from [oldState] to [targetState].	The Profile cannot be changed from original to target status.
GetProfileInfo	8.2.1	3.7	null	ICCID [iccid] not found in the database.	The ICCID does not exist!
	8.2.5	3.7	null	ProfileType [profileType] not found in the database.	The ProfileType does not exist!
UpdateProfileParam AndGenerateAC	8.2.1	3.9	Profile ICCID	Unknown	Unknown ICCID.
	8.2	3.8	Profile	profile state should be available.	The Profile must be in 'Available' status.
	8.2.9	2.1	null	decrypt ki/opc failed	The KI or OPC decryption has failed.
	8.2.11	3.1	[iccid]	The Profile is imported by UPP, only MSISDN can be updated.	The Profile is imported by UPP, only MSISDN can be updated.
	8.2.12	3.1	[iccid]	The Profile is imported by metadata, only MSISDN, IMSI, KI, OPC, PIN, PUK, ADM 1, IMPU, IMPI and C9 can be updated.	The Profile is imported by metadata, only MSISDN, IMSI, KI, OPC, PIN, PUK, ADM 1, IMPU, IMPI and C9 can be updated.
	8.2.13	3.1	[iccid]	Only Profiles encrypted by Session Key can be updated.	Only Profiles encrypted with the session key can be updated.
	8.3	3.8	[iccid]	An error occurred during updating the data, please contact Redtea Mobile technical engineer.	An error occurred during data update. Please contact Redtea Mobile technical support engineer.
	8.2.12	3.1	[iccid]	[paramKey] param value verification fail.	The [paramKey] value verification has failed.

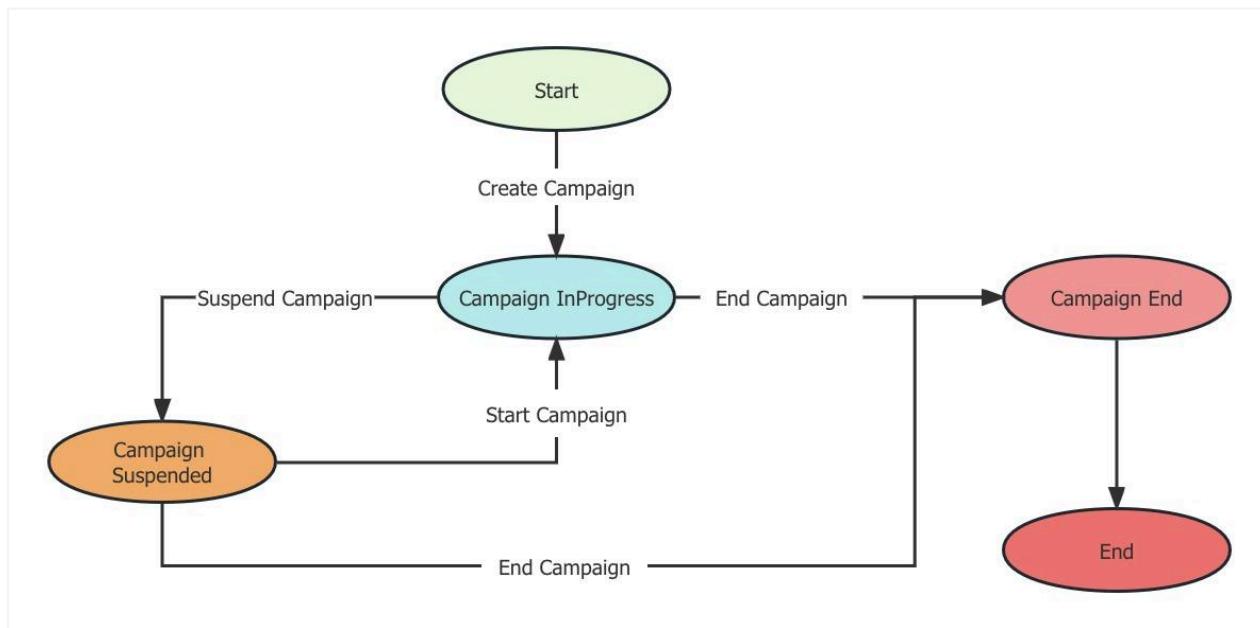
	9.1	2.1	9.1	Iccid max size is 20	The maximum length of ICCID is 20 digits.
	9.1	2.1	9.1	Iccid should not be null	The ICCID cannot be null.
	9.1	2.1	9.1	ParamKeyValueList should be present	The paramKeyValueList must exist.
AddProfileTypeByUPP	8.2.5	2.1	null	Profile Type name exists	The Profile type name already exists.
	8.2.8	2.1	null	Illegal PPR, PPR is a combination of 0 or 1, length is 3.	The PPR format is invalid! It should consist of a combination of 0 and 1, with length of 3 digits.
	8.2.51	2.1	null	Upp param name length should between 1 and 20	The length of the parameter name in the UPP template must be between 1 and 20 characters.
	8.2.51	2.2	null	[ICCID, IMSI, KI, OPC] must be present in upp template.	The ICCID, IMSI, KI and OPC are mandatory in the UPP template.
	8.2.51	2.1	null	The number of upp params should not exceed 50.	The number of parameters in the UPP template should not exceed 50.
	8.2.51	2.1	null	Duplicated upp param found in Upp content.	Duplicated UPP parameters exist in UPP content.
UpdateProfileTemplateByUPP	8.2.51	2.1	null	Upp param name length should between 1 and 20	The length of the parameter name in the UPP template must be between 1 and 20 characters.
	8.2.51	2.2	null	[ICCID, IMSI, KI, OPC] must be present in upp template	The ICCID, IMSI, KI and OPC are mandatory in the UPP template.
	8.2.51	2.1	null	The number of upp params should not exceed 50	The number of UPP parameters should not exceed 50.
	8.2.51	2.1	null	Duplicated upp param found in uppContent	Duplicated UPP parameters exist in UPP content.
	8.2.5	2.1	null	Profile type cannot be found	The Profile type cannot be found!
AddProfileByUPPParams	8.2.1	2.2	null	Iccid not provided	ICCID is not provided.

	8.2.5	2.1	null	Profile type should be present	Profile type is not specified.
	8.2.1	2.1	null	Iccid already exists	The ICCID already exists!
UpdateProfileByUPPParams	8.2.1	2.2	null	Iccid not provided	ICCID is not provided.
	8.2.1	3.9	null	Iccid not found	The ICCID does not exist!
	8.2	3.8	null	Profile has been downloaded	The profile cannot be updated because it has already been downloaded.
BatchGenerateByProfileUPPPParams	8.2.1	2.1	Profile ICCID	Some iccids are duplicated or absent	Some of the ICCIDs are duplicated or not provided.
	8.2.1	2.5	Profile ICCID	Some of the iccid(s) already exists	Some of the ICCIDs already exist.
	8.2.5	2.1	null	Profile type does not exist or profile template is not upp template.	The Profile type does not exist (or the Profile template is not an UPP template).
	8.2.51	2.1	null	Profile template not found for provided profile name.	The Profile template can not be found.
	9.1	2.1	null	Requested upp params length not equals to profile template content slots length.	The input UPP parameters do not match the parameters defined in the UPP template.
	8.2.1	2.1	null	Iccid length must be 20	The length of ICCID must be 20 digits.
	8.2	2.1	null	Imsi length must be 18	The length of ICCID must be 18 digits.
	9.1	2.5	null	k4Name and encAesKey should not be present simultaneously.	Only one of k4Name and encAesKey can be used for encryption.
	9.2	2.1	null	k4 name does not exist or invalid transport key.	The k4 name does not exist (or the transport key is invalid)!
	9.1	2.1	null	Cannot decrypt with given transport key	The parameter cannot be decrypted with the given transport key.
	9.1	2.1	null	Provided encoded aes key cannot be decrypted.	The encAesKey cannot be decrypted.

	9.1	2.1	null	k4Name or encAesKey should be present.	Either k4Name or encAesKey must be used for encryption.
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Annex B: Campaign Status Workflow



Annex C: Campaign Resource Status Workflow

