

Error! Reference source not found.

# PARADISE APPLICATION

## API SPECIFICATION

GENERATE CR2 ESIM  
UPDATE CR2 ESIM HLR

Version: 1

Author:



**PT. AZEC Indonesia Management Services**

Copyright © 2024

CONFIDENTIAL

# 1. Content

- 1. Content .....1
- 2. Document History .....2
  - 2.1. Revision History .....2
  - 2.2. Approval .....2
  - 2.3. Distribution .....2
- 3. Service Flow .....3
- 4. API GenerateCR2Esim.....4
  - 4.1. API Request Specification.....4
    - 4.1.1. Request Header .....4
    - 4.1.2. Request Body.....4
  - 4.2. API Response Specification .....6
  - 4.3. API Response Error Code.....7
- 5. API UpdateCR2EsimHLR.....8
  - 5.1. API Request Specification.....8
    - 5.1.1. Request Header .....8
    - 5.1.2. Request Body.....8
  - 5.2. API Response Specification.....9
  - 5.3. API Response Error Code.....10

## 2. Document History

---

### 2.1. Revision History

Revision Number	Revision Date	Name	Summary of Changes	Changes marked

### 2.2. Approval

This document requires following approvals. Signed approval forms are filled in the Quality section of the PCB.

Name	Title
Uly Suciati	TELKOMSEL – IT Supply & Resource Management
Muhammad Mastur	TELKOMSEL – Head of Supply and Resource Management Department
Irni Ardyani Dewi	PT. Azec Indonesia Management Services

### 2.3. Distribution

This document has been distributed to

Name	Title
Uly Suciati	TELKOMSEL – IT Supply & Resource Management
Muhammad Mastur	TELKOMSEL – Head of Supply and Resource Management Department
Irni Ardyani Dewi	PT. Azec Indonesia Management Services

### 3. Service Flow

---

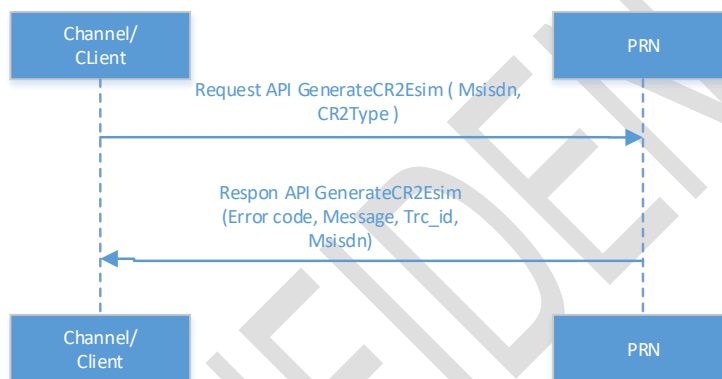
Currently sim card technology has developed, where currently there is a system that uses electronic Simcard (esim), for that telkomsel business will use this technology.

One of the needs for this online esim process is an api to view CR2 data and register Aki or Modify Aki to HLR

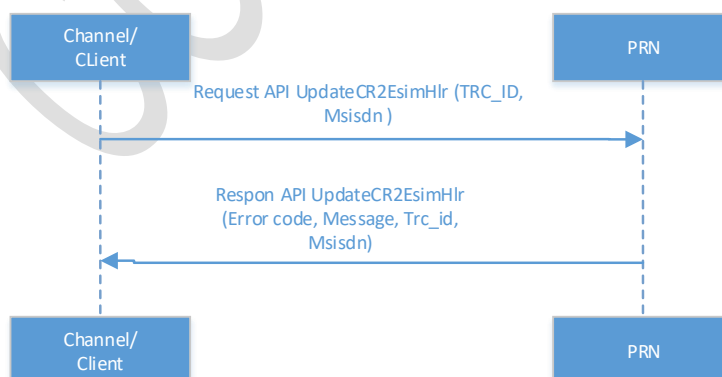
How it works, After the number has been purchased by the customer, the surrounding will request GenerateCR2 and Update cr2 HLR data through the api and then send the data to the esim vendor to be injected.

After Request API Generate CR2 will get TRC\_ID, then to register CR2 (KI and imsi) to HLR must hit API UpdateCr2EsimHLR using the TRC\_ID parameter obtained from the Api GenerateCR2Esim.

#### 3.1. Diagram Flow API GENERATECR2Esim



#### 3.2. Diagram Flow API UPDATECR2EsimHLR



## 4. API GenerateCR2Esim

### 4.1. API Request Specification

<b>API Name</b>	GenerateCR2Esim
<b>Description</b>	API to Generate CR2 Esim
<b>Resource URL</b>	Dev : https://10.38.19.57.103:8195/PRNEsim/GenerateCR2Esim Prod https://host:port/PRNEsim/GenerateCR2Esim
<b>Transport Protocol</b>	HTTP(S)
<b>Request Verb</b>	POST
<b>Content Type</b>	application/json
<b>Interaction Type</b>	Synchronous
<b>Security</b>	Basic Authorization

#### 4.1.1. Request Header

Parameter Request Header			
Name	Required	Acceptable Value	Sample
Content-Type	Y	application/json	Set value to "application/json"
x-auth	Y	base64( secret, UNIX timestamp)	Timestamp : :1706174984 YWRpdGE6YWRpdGExMjM0NQ==
x-clientid	Y	{client_id}	88

#### 4.1.2. Request Body

Parameter Request Body					
Name	Type	Required	Length	Description	Sample
METHOD	String	Y	10	Method Tittle API	GENERATECR2E SIM
MSISDN	String	Y	15	Number of MSISDN	081210001000 or 6281210001000
CR2TYPE	String	Y	2	Type Validation for Generate CR2	1 / 2 / 3 1. Migration esim to esim 2. New esim 3. Migration simcard to esim

CHANNEL_CODE	String	N	10	Channel 2nd party	105
--------------	--------	---	----	-------------------	-----

**Sample Request :**

```
curl --location --request POST
'https://10.38.19.57:8195/PRNEsim/GenerateCR2Esim' \
--header 'x-auth:
WVdScGRHRTZZV1JwZEdFeE1qTTBOUT09OjE2ODg0NDYyMj
Q4MTY' \
--header 'x-clientid: 105' \
--header 'Content-Type: text/plain' \
--data-raw '{
  "METHOD" : "GENERATECR2ESIM",
  "MSISDN" : "081210001000",
  "CR2TYPE" : "2",
  "CHANNEL_CODE" : "88"
}
```

## 4.2. API Response Specification

Parameter API Response				
Request will be replied in JSON Format				
Element Name	Type	Length	Description	Sample
REPLY	-	-		
METHOD	String	20	Method Tittle API	GENERATECR2E SIM
ERROR_CODE	String	3	Response Code	000
MESSAGE	String	100	Response Description	SUCCESSFULLY
DATA		-		
TRC_ID	STRING	20	Transaction_id GenerateCR2	123456
MSISDN	String	15	Msisdn Number	081210001000 or 6281210001000

Sample Response Success
<pre>{   "REPLY": {     "METHOD": "GENERATECR2ESIM",     "ERROR_CODE": "000",     "MESSAGE": "SUCCESSFULLY",   },   "DATA": {     "TRC_ID": "123456",     "MSISDN": "081109100047",   } }</pre>

Sample Response Failed
<pre>{   "REPLY": {     "METHOD": "GENERATECR2ESIM",     "ERROR_CODE": "005",     "MESSAGE": "STATUS MSISDN NOT VALID",   },   "DATA": {     "TRC_ID": "-",     "MSISDN": "081109100049",   } }</pre>

### 4.3. API Response Error Code

Error Code	Message	Note
000	SUCCESS	Success Trx
001	MSISDN NOT FOUND !	Business Error
002	INVALID AUTHENTICATION	Business Error
003	CLIENT ID NOT FOUND	Business Error
004	IP IS NOT WHITE LIST !	Business Error
005	STATUS MSISDN NOT VALID !	Business Error
006	CR2TYPE NOT VALID !	Business Error
007	FAILED GENERATE CR2ESIM !	System Error
111	OOPS. SOMETHING WRONG. PLEASE TRY AGAIN LATER. IF THE PROBLEM CONTINUES, CONTACT YOUR ADMINISTRATOR	System Error
112	REQUEST METHOD HANYA BISA POST	System Error
113	METHOD NOT VALID !	Business Error
114	TIME OUT !	System Error



## 5. API UpdateCR2EsimHLR

### 5.1. API Request Specification

<b>API Name</b>	UpdateCR2EsimHLR
<b>Description</b>	API UpdateCR2Esim to HLR
<b>Resource URL</b>	Dev : https://10.38.19.57.103:8195/PRNEsim/UpdateCR2EsimHlr Prod https://host:port/PRNEsim/UpdateCR2EsimHlr
<b>Transport Protocol</b>	HTTP(S)
<b>Request Verb</b>	POST
<b>Content Type</b>	application/json
<b>Interaction Type</b>	Synchronous
<b>Security</b>	Basic Authorization

#### 5.1.1. Request Header

Parameter Request Header			
Name	Required	Acceptable Value	Sample
Content-Type	Y	application/json	Set value to "application/json"
x-auth	Y	base64( secret, UNIX timestamp)	Timestamp : :1706174984 YWRpdGE6YWRpdGExMj M0NQ==
x-clientid	Y	{client_id}	105

#### 5.1.2. Request Body

Parameter Request Body					
Name	Type	Required	Length	Description	Sample
METHOD	String	Y	10	Method Tittle API	UPDATECR2ESIM HLR
TRC_ID	String	Y	20	Transaction ID	12345
MSISDN	String	Y	15	MSISDN	081210001000 or 6281210001000
CHANNEL_CO DE	String	N	10	Channel 2nd party	88

**Sample Request :**

```
curl --location --request POST
'https://10.38.19.57:8195/PRNEsim/UpdateCR2EsimHlr' \

--header 'x-auth:
WVdScGRHRTZZV1JwZEdFeE1qTTBOUT09OjE2ODg0NDYyMj
Q4MTY' \

--header 'x-clientid: 105' \

--header 'Content-Type: text/plain' \

--data-raw '{
  "METHOD" : "UPDATECR2ESIMHLR",
  "TRC_ID" : "1",
  "MSISDN" : "081210001000",
  "CHANNEL_CODE" : "88"
}
```

## 5.2. API Response Specification

Parameter API Response				
Request will be replied in JSON Format				
Element Name	Type	Length	Description	Sample
<b>REPLY</b>	-	-		
METHOD	String	20	Method Tittle API	UPDATECR2ESI MHLR
ERROR_CODE	String	3	Response Code	000
MESSAGE	String	100	Response Description	SUCCESSFULL Y
<b>DATA</b>		-		
TRC_ID	STRING	20	Transaction_id GenerateCR2	1
MSISDN	String	15	Msisdn Number	081210001000 or 6281210001000

Sample Response Success
<pre>{   "REPLY": {     "METHOD": "UPDATECR2ESIMHLR",     "ERROR_CODE": "000"     "MESSAGE": "SUCCESSFULLY",   },    "DATA": {     "TRC_ID": "1",     "MSISDN": "081109100047",   } }</pre>

Sample Response Failed
<pre>{   "REPLY": {     "METHOD": "UPDATECR2ESIMHLR",     "ERROR_CODE": "001"     "MESSAGE": "TRC_ID NOT FOUND !",   },    "DATA": {     "TRC_ID": "-",     "MSISDN": "081109100049",   } }</pre>

### 5.3. API Response Error Code

Error Code	Message	Note
000	SUCCESS	Success Trx
001	TRC_ID NOT FOUND !	Business Error
002	INVALID AUTHENTICATION	Business Error
003	CLIENT ID NOT FOUND	Business Error
004	IP IS NOT WHITE LIST !	Business Error
005	PROVISIONING HLR FAILED !	Business Error
006	TRC_ID ALREADY SUCCESS	Business Error
111	OOPS. SOMETHING WRONG. PLEASE TRY AGAIN LATER. IF THE PROBLEM CONTINUES, CONTACT YOUR	System Error

	ADMINISTRATOR	
112	REQUEST METHOD HANYA BISA POST	System Error
113	METHOD NOT VALID !	Business Error
114	TIME OUT !	System Error

CONFIDENTIAL