Error! Reference source not found.

PARADISE APPLICATION

API SPECIFICATION
GET CR2 ESIM

Version: 2

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1. Content

2. Document History

2.1. Revision History

Revision Number	Revision Date	Name	Summary of Changes	Changes marked
V2	29 Jan 2024	Ully Suciati	Add response parameter: ESIM_LOCATION	

2.2. Approval

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

Name	Title
Ully Suciati	TELKOMSEL – IT Supply & Resource Management
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Irni Ardyani Dewi	PT. Azec Indonesia Management Services

2.3. Distribution

This document has been distributed to

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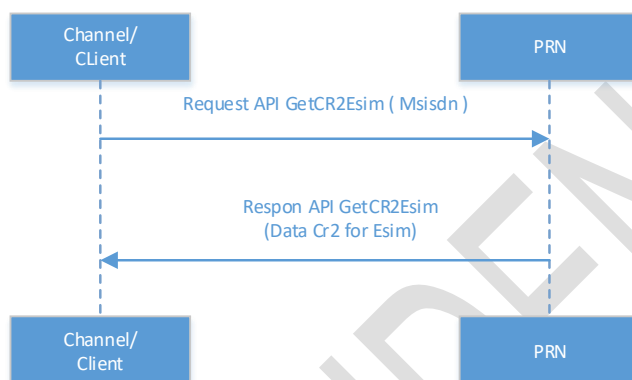
Currently sim card technology has developed, where currently there is a system that uses electronic Simcard (esim), for that telkomsel business will use this technology.

One of the needs for this online esim process is an api to view CR2 data.

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

3.1. Diagram Flow API GET CR2Esim

4. API GetCR2Esim

4.1. API Request Specification

API Name	GetCR2Esim
Description	API to view to list Data CR2
Resource URL	Dev : https://10.38.19.57.103:8195/PRNEsim/GetCR2Esim Prod https://host:port/PRNEsim/GetCR2Esim
Transport Protocol	HTTP(S)
Request Verb	POST
Content Type	application/json
Interaction Type	Synchronous
Security	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}	105

4.1.2. Request Body

Parameter Request Body					
Name	**Type**	**Required**	**Length**	**Description**	**Sample**
METHOD	String	Y	10	Method Tittle API	GETCR2ESIM
MSISDN	String	Y	15	Number of MSISDN	081210001000
CHANNEL_CODE	String	N	10	Channel 2nd party	88

Sample Request :

curl --location --request POST
'https://10.38.19.57:8195/PRNEsim/GetCR2Esim' \

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

--header 'x-clientid: 105' \

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

--data-raw '{

  "METHOD"   : "GETCR2ESIM",

  "MSISDN" : "081210001000",

  "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	GETCR2ESIM
ERROR_CODE	String	3	Response Code	000
MESSAGE	String	100	Response Description	Successfully
DATA		-		
MSISDN	String	20	Msisdn Number	081210001000
IMSI	String	128	The imsi plaintext is converted to bytes, encrypted with Aeskey, then encoded by HEX	
ICCID	String	20	Iccid	
PIN1	String	4	Pin 1	
PIN2	String	4	Pin 2	
PUK1	String	8	Puk 1	
PUK2	String	8	Puk 2	
KI	String	128	The Hex encoded ki plain text is decoded and converted to bytes, ecrypted with Aeskey, then encoded by HEX	
OPC	String	128	The Hex encoded opc plain text is decoded and converted to bytes, ecrypted with Aeskey, then encoded by HEX	
ENCAESKEY	String	128	AES-256 key generated by the Operator's system, encrypted with KEK PK, then encode by Base64	
SERIALNO	String	20	Serial No Inventory	0
SUBSCRIBERTYPE	String	10	SubcriberType	PostPaid / Prepaid
SUBSCRIBERCLASS	String	15	Subscriber Class	Regular / Golden Number
ESIM_LOCATION	String	10	Cluster	WEST, EAST

Sample Response Success

```
{
  "REPLY": {
    "METHOD": "GETCR2ESIM",
    "MESSAGE": "SUCCESSFULLY",
    "ERROR_CODE": "000"
  },
  "DATA": {
    "MSISDN": "081109100047",
    "ICCID": "896210000915100047",
    "IMSI": "BBACC467355D95012A",
    "PIN1": "1234",
    "PIN2": "4212",
    "PUK1": "76152381",
    "PUK2": "69045013",
    "KI": "BBACC467355D95012AC2C18F7E0B52E9",
    "OPC": "12AC2C18F7E0B52E9BBACC467355D950",
    "ENCAESKEY": "55D95012AC2CBBACC467318F7E0B52E9",
    "SERIAL_NO": "0",
    "SUBSCRIBER_TYPE": "POSTPAID",
    "SUBSCRIBER_CLASS": "REGULER",
    "ESIM_LOCATION": "WEST"
  }
}
```

Sample Response Failed

```
{
  "REPLY": {
    "METHOD": "GETCR2ESIM",
    "MESSAGE": "MSISDN NOT FOUND !",
    "ERROR_CODE": "001"
  },
  "DATA": {
    "MSISDN": "081109100049",
    "ICCID": "-",
    "IMSI": "-",
    "PIN1": "-",
    "PIN2": "-",
    "PUK1": "-",
    "PUK2": "-",
    "KI": "-",
    "OPC": "-",
    "ENCAESKEY": "-",
    "SERIAL_NO": "-",
    "SUBSCRIBER_TYPE": "-",
```

```
    "SUBSCRIBER_CLASS": "-",
    "ESIM_LOCATION": "-"
      }
}
```

4.3. API Response Error Code

Error Code	Message	Note
000	SUCCESS	Success Trx
001	MSISDN NOT FOUND !	Business Error
002	INVALID USER OR PASSWORD API !	Business Error
003	CLIENT ID NOT FOUND	Business Error
004	IP IS NOT WHITE LIST !	Business 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