Interface Agreement

Get Consent Master Details

Telkomsel Digital Core

Document History

Revision History

Date	Name	Version	Summary of Changes
24-Oct-2023	Eric Wong	0.1	Initial Draft
17-Nov-23	Anandababu Bolisetti	0.2	Added APIGW path to resource details
24-Nov-23	Anandababu Bolisetti	0.3	Updated signature hashing algorithm from SHA256 to MD5

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1. Introduction

1.1 Scope

This technical specification document covers the high-level specification required for getting master data of term and condition with latest version to Customer Consent Management in CRM Backend.

1.2 Intended Audience

The intended audience for this document is as follows:

- Solution Architecture Team
- Functional / Technical Design Team
- Development Team
- Testing Team
- Provider system owner team
- Deployment team
- Consumer system owner team

2. API – Get Consent Master Details

2.1 Resource Specification

This serves as a module to get customer consent status.

Resource Name	customerconsent-bs
Description	API to get master data of term and conditions.
Resource URL	**APIGW:** https://[FQDN]/scrt/esb/v1/customers/consents/master **ESB:** https://[FQDN]/esb/v1/customers/consents/master
Transport Protocol	HTTP(S)
Request Verb	POST
Content Type	application/json
Interaction Type	Synchronous
Security Policy *	*API Key & X-Signature in Request Header*

** Please refer to section 3.1 Integration and Security Policy for further details.*

2.2 Request & Response

2.2.1 Request Headers

Header Field Name	Acceptable Value	Remarks
Content-Type	application/json	Set value to “application/json”
Accept	application/json	Set value to “application/json”
api_key	{api_key}	
x-signature	md5(api_key, secret, UNIX timestamp)	

Request Headers Example:

```
Content-Type: application/json
Accept: application/json
api_key: ak9j5bxm3yvtyepu5fkv62yq
x-signature: 51b59a34a36d161dee67607f10642ee1
```

2.2.2 Request Query Parameters

N/A

Request Query Parameters Example:

N/A

2.2.3 Request Body

Element Name	Data Type	Repeatable	Length	M/O	Description
transaction		No		M	
transaction_id	String	No	25	O	Transaction ID

channel	String	No	2	M	2-digits Channel Identifier. i1 = MyTelkomsel Apps a0 = MyTelkomsel Web
consent		No		M	
user_id	String	No	30	O	User ID (employee) of the actual user who initiated the transaction in Front-End
language	String	No	10	M	Language for which Consent Information to be queried. Applicable values for this parameter are: • ID • EN
terms		Yes			
terms_id	String	No	30	M	The Terms Id for which Term information is required to be queried
terms_version_id	String	No	30	M	The Terms Version Id for which Term information is required to be queried

Request Body Parameters Example:

```
{
   "transaction":
   {
      "transaction_id": "A00243829482938293849283 9",
      "channel": "i1"
   },
   "consent": {
      "user_id": "12345",
      "language": "ID",
      "terms": [
         {
            "terms_id": "1",
            "terms_version_id": "11"
         },
         {
            "terms_id": "2",
            "terms_version_id": "22"
         }
      ]
   }
}
```

2.2.4 Response Headers

Header Field Name	Acceptable Value
Content-Type	application/json

Response Headers Example:

```
content-type: application/json
```

2.2.5 Response Body

Element Name	Data Type	Repeatable	Length	M/O	Description
transaction	Object	No	N/A	M	Transaction details.
transaction_id	String	No	25	M	Transaction ID.
channel	String	No	2	M	Channel Name.
status_code	String	No	25	M	Status Code. Refer to Section 2.4 for the list of value.
status_desc	String	No	256	M	Status Description. Refer to Section 2.4 for the list of value mapping against status_code.
master_consents_list	Object	Yes	N/A	O	
terms_id	String	No	30	M	Queried term ID.
terms_name	String	No	255	M	Associated terms name that customer apply consent to or not yet
terms_version_id	String	No	30	M	Queried version of term ID.
service_type	String	No	30	M	LOV: • General • Specific Whether this is a General OR Specific Consent
consent_description	String	No	32000	M	The Consent Description.
purpose	-	Yes	-	O	
purpose_name	String	No	100	M	The Name of the Purpose
purpose_description	String	No	32000	M	The Purpose Description

**M=Mandatory, O=Optional*

Response Body Success Example 200


```
{
   "transaction": {
      "transaction_id": "C00249201257204928302322 3",
      "channel": "i1",
      "status_code": "00000",
      "status_desc": "Success"
   },
   "master_consents_list": [
      {
         "terms_id": "123",
         "terms_name": "Terms name…",
         "terms_version_id": "2",
         "service_type": "General",
         "consent_description": "<h1>Ketentuan Umum Pengguna Layanan . . .",
         "purpose": [
            {
               "purpose_name": "Purpose1",
               "purpose_description": "<h3>Pembaruan Ketentuan Penggunaan . ."
```

```
            },
            {
               "purpose_name": "Purpose2",
               "purpose_description": "<h3>Persyaratan Penggunaan . ."
            }
         ]
      },
      {
         "terms_id": "2",
         "terms_name": "Terms name…",
         "terms_version_id": "1",
         "service_type": "Specific",
         "consent_description": "<h1>Ketentuan spesifik Layanan ByU. . .",
         "purpose": [
            {
               "purpose_name": "Purpose123",
               "purpose_description": "<h3>Pembaruan Ketentuan Penggunaan . ."
            },
            {
               "purpose_name": "Purpose234",
               "purpose_description": "<h3>Persyaratan Pengguna</h3><ol><li>A"
            }
         ]
      }
   ]
}
```


Response Body Business Error Example 400


```
{
   "transaction": {
      "transaction_id": "C00249201257204928302322 3",
      "channel": "i1",
      "status_code": "302222",
      "status_desc": " Service provider error: Consent Management - Mandatory Parameter
cannot be null or empty"
   }
}
```


Response Body Exception/System Error from Backend Example 503


```
{
   "transaction": {
      "transaction_id": "C00249201257204928302322 3",
      "channel": "i1",
      "status_code": "10001",
      "status_desc": "Service provider unreachable"
   }
}
```


2.3 Sequence Diagram

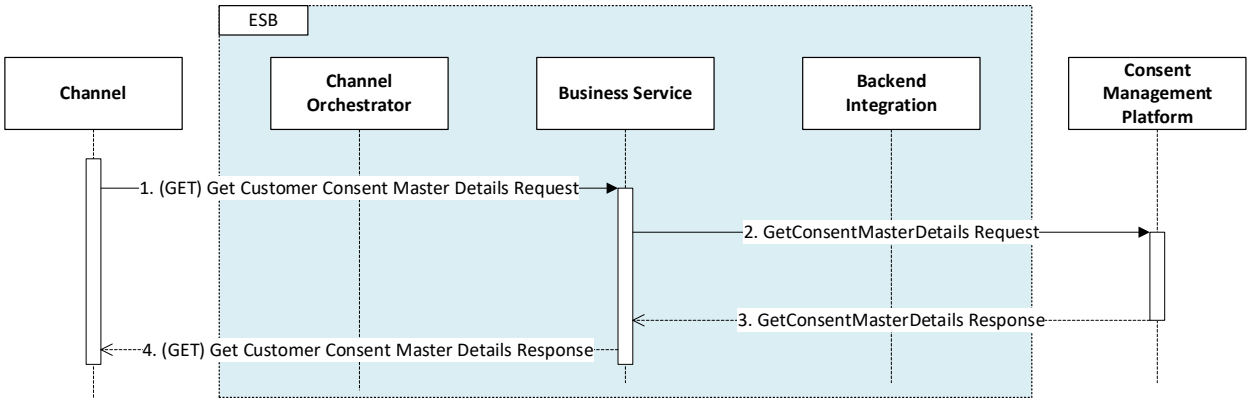

Figure 1 – Business Service – Get Consent Master Details Sequence Diagram

Seq #	Description
1	ESB Business Service receives (GET) Get Consent Master Details request.
2	ESB Business Service calls GetConsentMasterDetails to Consent Management Platform.
3	ESB Business Service receives GetConsentMasterDetails response from Consent Management Platform.
4	ESB Business Service returns (GET) Get Consent Master Details response to Channel.

2.4 Status Code

2.4.1 ESB Status Code

HTTP Status Code	ESB Status Code	Description
200	00000	Success
400	20002	Invalid mandatory parameter/Invalid MSISDN
400	20003	Missing mandatory parameter
500	40000	ESB internal error
400 or 502**	30xxx	Service provider error: {provider}-{*service provider error description*}
503	10001	Service provider unreachable
503	10002	System under maintenance

* xxx = {*service provider error code*}

**4XX for business errors, 5XX for system errors

2.4.2 Consent Management Result/Status Code

Consent Management Code	Consent Management Platform Desc	Type	ESB Status Code	ESB Status Desc
0000	Success	Success	00000	Success
0001	No such Terms ID exists	Business Error	300001	Service provider error: Consent Management - No such Terms ID exists
0002	No such Terms Version ID exists	Business Error	300002	Service provider error: Consent Management - No such Terms Version ID exists
2222	Mandatory Parameter cannot be null or empty	Business Error	302222	Service provider error: Consent Management - Mandatory Parameter cannot be null or empty
9999	System Error	System Error	309999	Service provider error: Consent Management - System Error

2.5 List of Values

2.5.1 Channel

Name	Value
channel	Telkomsel - Channel Codificatio

2.6 Performance

No	Characteristic	Value	Notes
1	Max Throughput (TPS)	TBC	
2	Max Response Time (Sec)	TBC	
3	Max Concurrent Connection	TBC	

3. Appendix

3.1 Integration and Security Policy

3.1.1 Integration Standard

All integration to Digital Core ESB will follow below standard:

No	Standard
1	All API calls must use FQDN instead of using IP:PORT. Thus, all consumers (callers) had to resolve the FQDN.
2	All API calls must use HTTPS.
3	All API calls must use API Key and X-Signature.
4	All API calls to ESB go through API Gateway (Mashery).

3.1.2 API Key & Signature

To call ESB services, surrounding systems will need to pass an API Key and a Signature. The API Key will be given by Telkomsel team, while the Signature will be generated by surrounding systems. The Signature needs to use the MD5 hash algorithm.

Format:

x-signature = md5(api_key, secret, UNIX timestamp)

Sample:

65a08176826fa4621116997e1dd775fa = md5(2fvmer3qbk7f3jnqneg58bu2, qvxkmw57pec7, 1200603038)

3.2 References

No	Service Name	Service Provider	Referenced Document Name
-	N/A	N/A	N/A

3.3 Glossary

Abbreviation	Description
ESB	Enterprise Service Bus
HTTP	Hyper Text Transfer Protocol
JSON	JavaScript Object Notation
REST	Representational State Transfer

3.4 Assumption

Component	No.	Assumption Detail

3.5 As-Is Analysis