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| **IDN Service – JSON API**  **Specification Document** |
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Document **Abbreviations**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| API | Application Programming Interface |
| SP | Service Provider |

**Table of Contents**

Contents

[**1** **Introduction** 6](#_Toc174326223)

[**2.** **Packet Structure** 7](#_Toc174326224)

[**3.** **ResPONSE codes** 8](#_Toc174326225)

[**4.** **API – IDN GET ROLES** 9](#_Toc174326226)

[4.1 CommandID 9](#_Toc174326227)

[ IDNGETROLES 9](#_Toc174326228)

[4.2 Request body 9](#_Toc174326229)

[4.2 Success Response body 9](#_Toc174326230)

[**5.** **API – IDN GET ALL USERS** 10](#_Toc174326231)

[5.1 CommandID 10](#_Toc174326232)

[ IDNGETUSER-ALL 10](#_Toc174326233)

[5.2 Request body 10](#_Toc174326234)

[5.3 Success Response body 10](#_Toc174326235)

[**6.** **API – IDN GET single USERS** 10](#_Toc174326236)

[6.1 CommandID 11](#_Toc174326237)

[ IDNGETUSER-SOLE 11](#_Toc174326238)

[6.2 Request body 11](#_Toc174326239)

[6.3 Success Response body 11](#_Toc174326240)

[**7.** **API – IDN Create USER** 11](#_Toc174326241)

[7.1 CommandID 12](#_Toc174326242)

[ IDNCREATEUSER 12](#_Toc174326243)

[7.2 Request body 12](#_Toc174326244)

[7.3 Success Response body 12](#_Toc174326245)

[**8.** **API – IDN ASSIGN ROLE** 12](#_Toc174326246)

[8.1 CommandID 13](#_Toc174326247)

[ IDNSETROLE 13](#_Toc174326248)

[8.2 Request body 13](#_Toc174326249)

[8.3 Success Response body 13](#_Toc174326250)

[**9.** **API – IDN remove ROLE** 13](#_Toc174326251)

[9.1 CommandID 14](#_Toc174326252)

[ IDNDELROLE 14](#_Toc174326253)

[9.2 Request body 14](#_Toc174326254)

[9.3 Success Response body 14](#_Toc174326255)

[**10.** **API – IDN suspend user** 14](#_Toc174326256)

[10.1 CommandID 15](#_Toc174326257)

[ IDNSUSPEND 15](#_Toc174326258)

[10.2 Request body 15](#_Toc174326259)

[10.3 Success Response body 15](#_Toc174326260)

[**11.** **IDN activate USER** 15](#_Toc174326261)

[11.1 CommandID 16](#_Toc174326262)

[ IDNACTIVATE 16](#_Toc174326263)

[11.2 Request body 16](#_Toc174326264)

[11.3 Success Response body 16](#_Toc174326265)

[**12.** **Generic Fail responses** 16](#_Toc174326266)

[12.1 Invalid Request Response Body 17](#_Toc174326267)

[12.2 Duplicate Request Response Body 17](#_Toc174326268)

[12.3 Invalid SPID/Interface Response Body 17](#_Toc174326269)

[12.4 Invalid Username/Password Response Body 17](#_Toc174326270)

[12.5 Invalid CommandID 17](#_Toc174326271)

1. **Introduction**

This document details and provides samples of the list of Service APIs used with the Web Service aspects of the interface:

1. Data Type Definition
2. Web Service Interface Definition
3. Request Examples
4. Response Examples
5. **Packet Structure**

| Element name | Element type | Optional | Description |
| --- | --- | --- | --- |
| spId | string | No | SP ID.  This is the Service Provider Identifier that is allocated to the 3rd party.  [Example] 000201 |
| spPassword | string | No | This is an encrypted form of the SP password issued to an SP when an account is created for the 3rd party.  The encrypted password is a Base64 encoded string of the SHA-256 hash of the concatenation of the spId, password and the timeStamp as illustrated below:  Given the following parameters  spId: 601399  password: spPassword  timestamp: 20130702212854  spPassword = BASE64(SHA-256(spId + Password + timeStamp)) e.g.  spPassword = BASE64(SHA-256(601399spPassword20130702212854)  [Example]  e6434ef249df55c7a21a0b45758a39bb |
| serviceId | string | No | Service ID.  This is the Service Identifier that is allocated for every service created.  [Example]  3500001000012 |
| Timestamp | string | No | Time stamp (UTC time).  The value is required during SHA-256 encryption for **spPassword**.  NOTE  If the **spPassword** parameter must be set, this parameter is mandatory.  [Format]  yyyyMMddHHmmss  [Example]  20100731064245 |
| CommandID | string | No | The unique identifier of the request operation. Max length is 64. Only the commandIDs provided in the APIs section on this document are valid. eg.  IDNGETROLES  IDNSUSPEND |
| OriginatorConversationID | string | No | The unique alphanumeric identifier of the request message generated by third party. It is used to identify a request between the third party and the system. Field must be unique for every transaction.  Max length is 128. |
| *NB: Request specific fields are defined on request section; non-optional to each request.* | | | |

1. **ResPONSE codes**

|  |  |  |
| --- | --- | --- |
| Error code | Error Description | Category |
| **0** | Success | ApiResponse |
| **1** | Failed | ApiResponse |

1. **API – IDN GET ROLES**

## 4.1 CommandID

## IDNGETROLES

## 4.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNGETROLES"*,*

 "OriginatorConversationID"*:* "*xxxx*"

*}*

## 4.2 Success Response body

*{*

    "ResponseCode"*:* "0"*,*

    "ResponseDesc"*:* "Request Get Roles was successful"*,*

    "OriginatorConversationID"*:* "ab3602fd-6d90-4e07-b5fe-ad265831b871"*,*

    "Roles"*:* *[*

*{*

            "GROUP"*:* "4C Admin"*,*

            "RIGHT"*:* "GSM"*,*

            "Permissions"*:* "1v,1U,1D,1AD,1AP,1C "

*},*

*{*

            "GROUP"*:* "iAP Administrator "*,*

            "RIGHT"*:* "Customer Care Configurable Product"*,*

            "Permissions"*:* "1v,1U,1D,1AD,1AP,0C "

*}*

*]*

*}*

1. **API – IDN GET ALL USERS**

## 5.1 CommandID

## IDNGETUSER-ALL

## 5.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNGETUSER-ALL"*,*

 "OriginatorConversationID"*:* "*xxxx*"

*}*

## 5.3 Success Response body

*{*

    "ResponseCode"*:* "0"*,*

    "ResponseDesc"*:* "Request Get Users was successful"*,*

    "OriginatorConversationID"*:* "0e079008-2434-489b-85d6-9f81738ad840"*,*

    "Roles"*:* *[*

*{*

            "NAME"*:* "Alpha Bravo"*,*

            "USERNAME"*:* "Abravo"*,*

            "ROLE"*:* "4C Admin"*,*

            "Enabled"*:* "Enabled"

*},*

*{*

            "NAME"*:* "Francis Pope"*,*

            "USERNAME"*:* "fpope"*,*

            "ROLE"*:* "4C Admin"*,*

            "Enabled"*:* "Locked"

*}*

*]*

*}*

1. **API – IDN GET single USERS**

## 6.1 CommandID

## IDNGETUSER-SOLE

## 6.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNGETUSER-SOLE"*,*

 "OriginatorConversationID"*:* "xxxx"*,*

 "UserName"*:* "musar"

*}*

## 6.3 Success Response body

*{*

    "ResponseCode"*:* "0"*,*

    "ResponseDesc"*:* "Request Get User was successful"*,*

    "OriginatorConversationID"*:* "d27e0974-d47b-4fcb-9323-54dcfb2b8772"*,*

    "UserName"*:* "musar"*,*

    "Name"*:* "musa"*,*

    "Roles"*:* "4C Admin, Administrator"*,*

    "Status"*:* "Active"

*}*

**API – IDN Create USER**

## 7.1 CommandID

## IDNCREATEUSER

## 7.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNCREATEUSER"*,*

 "OriginatorConversationID"*:* "xxxx"*,*

 "UserName"*:* "Abravo"*,*

 "UserEmail"*:* "abravo@gmail.com"*,*

 "Name"*:* "Alpha Bravo"*,*

 "Role"*:* "Administrator"*,*

 "Domain"*:* "Default"

*}*

## 7.3 Success Response body

*{*

    "ResponseCode"*:* 0*,*

    "ResponseDesc"*:* "Request Create User was successful"*,*

    "OriginatorConversationID"*:* "5995a5b8-a5c5-4765-918e-a8e62e96ef2b"*,*

    "UserName"*:* " Abravo"*,*

    "UserEmail"*:* "Abravo@gmail.com"*,*

    "Domain"*:* "Default"*,*

    "Role"*:* "Administrator"*,*

    "Name"*:* "Alpha Bravo"

*}*

1. **API – IDN ASSIGN ROLE**

## 8.1 CommandID

## IDNSETROLE

## 8.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNSETROLE"*,*

 "OriginatorConversationID"*:* "xxxx"*,*

 "UserName"*:* "musar"*,*

 "Role"*:* "Test"

*}*

## 8.3 Success Response body

*{*

    "ResponseCode"*:* 0*,*

    "ResponseDesc"*:* "Request Assign Role was successful"*,*

    "OriginatorConversationID"*:* "01a30fb1-3213-41ee-8135-9a29711aeb4f"*,*

    "UserName"*:* "musar"*,*

    "Role"*:* "Test"

*}*

1. **API – IDN remove ROLE**

## 9.1 CommandID

## IDNDELROLE

## 9.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNDELROLE"*,*

 "OriginatorConversationID"*:* "xxxx"*,*

 "UserName"*:* "musar"*,*

 "Role"*:* "Test"

*}*

## 9.3 Success Response body

*{*

    "ResponseCode"*:* 0*,*

    "ResponseDesc"*:* "Request Remove Role was successful"*,*

    "OriginatorConversationID"*:* "de68a0f4-bad5-44cb-bbf4-8cfa94a89f49"*,*

    "UserName"*:* "musar"*,*

    "Role"*:* "Test"

*}*

1. **API – IDN suspend user**

## 10.1 CommandID

## IDNSUSPEND

## 10.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNSUSPEND"*,*

 "OriginatorConversationID"*:* "xxxx"*,*

 "UserName"*:* "Abravo"

*}*

## 10.3 Success Response body

*{*

    "ResponseCode"*:* "0"*,*

    "ResponseDesc"*:* "User Abravo has been successfully Disabled."*,*

    "OriginatorConversationID"*:* "1ad5dabc-b39e-4c2a-87f9-a6b7178fc71b"

*}*

1. **IDN activate USER**

## 11.1 CommandID

## IDNACTIVATE

## 11.2 Request body

|  |  |
| --- | --- |
| REQUEST URL *(subject to change)* | **https://{URL}:** **10007/request/idn/** |
| METHOD | **POST** |

*{*

 "spId"*:* "xxxx"*,*

 "spPassword"*:* "xxxx"*,*

 "serviceId"*:* "xxxx"*,*

 "timeStamp"*:* "xxxx"*,*

 "CommandID"*:* "IDNACTIVATE"*,*

 "OriginatorConversationID"*:* "xxxx"*,*

 "UserName"*:* "Abravo"

*}*

## 11.3 Success Response body

*{*

    "ResponseCode"*:* "0"*,*

    "ResponseDesc"*:* "User Abravo has been successfully Enabled."*,*

    "OriginatorConversationID"*:* "7a313efb-6834-4879-b5af-2ba1f7e13141"

*}*

1. **Generic Fail responses**

## 12.1 Invalid Request Response Body

{

    "OriginatorConversationID": "Unable to process.",

    "ResponseCode": "1",

    "ResponseDesc": "The value(s) of username/password in the request is incorrect."

}

## 12.2 Duplicate Request Response Body

*{*

    "ResponseCode"*:* "1"*,*

    "ResponseDesc"*:* "Duplicate OriginatorConversationID."*,*

    "OriginatorConversationID"*:* "xxxx"

*}*

## 12.3 Invalid SPID/Interface Response Body

{

    "OriginatorConversationID": "xxxx",

    "ResponseCode": "1",

    "ResponseDesc": "The value(s) of username/password in the request is incorrect."

}

## 12.4 Invalid Username/Password Response Body

{

    "ResponseCode": "1",

    "ResponseDesc": "The value of spPassword in the request is incorrect.",

    "originatorConversationID": "xxxx"

}

## 12.5 Invalid CommandID

{

    "ResponseCode": "1",

    "ResponseDesc": "Invalid CommandID.",

    "originatorConversationID": "xxx"

}