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| **IDN Service – JSON API**  **Specification Document** |
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1. Document **Information**

|  |  |
| --- | --- |
| Document title: | IDN Service APIs - Rest Specification Guide |
| Document file name: | IDN Service APIs - Rest Specification Guide V1.0 |
| Issued by: | Prevoir |
| Issue Date: | August 12, 2024 |
| Revision: | 1.0 |

1. Document **Revision Log**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Author** | **Description of Change** |
| 1.0 | August 12, 2024 | Musa Rama | Release 1 |
|  |  |  |  |
|  |  |  |  |

Document **Abbreviations**

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

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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: Other fields defined on request section; specific and 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 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 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 was successful"*,*

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

    "UserName"*:* "musar"*,*

    "Name"*:* "musa"*,*

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

    "Status"*:* "Active"

*}*

1. **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 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 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 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"

}