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| T3 Technical Specification External API Management | November 15  2017 | |
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| 2.0 Draft D | 1. Update summary log format (@CmdName)  2. Update detail log format (@Event) | Manatsaporn K. | 01/22/2018 |

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# 1. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
|  |  |
|  |  |
|  |  |
| *<Terms using single or multiple words are valid. Terms of more than three words should be avoided>* | *<Use as much text as necessary to ensure that there is only one possible interpretation of the term within the context of the project/system. However, the minimum number of words should be used in order to improve understanding. Show words that have their own dictionary entry in bold>* |

# 2. Application Architecture

## Domain Application Roles

This document describes the requirement of External API Management (ExtAPI) which is shown a sample use case. This application interacts with (HTTP) client in order to show equinox behavior.



### Picture-01: External API Management Architecture System



### Picture-02: External API Management Architecture Subsystem

# 3. Sequence Diagrams



### Picture-03: External API Management Main Flow

# 4. Finite State Machine



### Picture-04: External API Management State Machine

# 5. Functional Requirements

## Use-Case



### Picture-05: External API Management Use Case

## UML Diagram

N/A

## Requirement Numbering System

[ExtAPI1-ExtAPI-00-000-0]

The number of this requirement group.

The component of the application.

The product release number.

This is release 1.

The application identifier.

ExtAPI = External API Management Function

The number of this requirement within the requirement group.

The version of this particular requirement.

This number is incremented whenever the wording, but not the meaning, of the requirement is changed.

An "X" here, indicates that the requirement has been deleted.

The requirements use the words "shall", "should" and "may" to indicate "mandatory", "recommended" and "optional" respectively as defined in RCF2119.

## Requirement Group Number

|  |  |
| --- | --- |
| **Functionality** | **Group Number** |
| Client Request Message Handling Function | [ExtAPI1-ExtAPI-01-00x-1] |
| Service Management Handling Function | [ExtAPI1-ExtAPI-02-00x-1] |
| E01 Handling Function | [ExtAPI1-ExtAPI-03-00x-1] |
| External API Management Call API Handling Function | [ExtAPI1-ExtAPI-04-00x-1] |
| External API Management Response Message Handling Function | [ExtAPI1-ExtAPI-05-00x-1] |
| External API Management Unexpected Delay Event Handling | [ExtAPI1-ExtAPI-06-00x-1] |

## 5.1 Client Request Message Handling Function

#### [ExtAPI1-ExtAPI-01-001-1]

Upon received of a request message from SACF, the application shall extract "URL" following parameters from the received message as follows:

***URL***

"/$AppVersion/$AppName/$Partner/$ServiceCategory/$APIName/…/?$QueryString"

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| URL | |  |  |  |  |
|  | AppVersion | String | M | SV | Application version  **Value:** v1 |
|  | AppName | String | M | SV | Application name  **Value:** ExternalAPI |
|  | Partner | String | M | SV | Partner name  **Example:** IBM  **Note:** In release phase (version 1.0), the partner should be "IBM" |
|  | ServiceCategory | String | M | SV | ServiceCategoryname  **Example:** PersonalityInsights |
|  | APIName | String | M | SV | API name  **Example:** profile |
|  | QueryString | String | O | MV | QueryString name each service API  **Example:**   * version * url |

**Example:** PersonalityInsights

"/v1/ExternalAPI/IBM/PersonalityInsights/profile?version=2017-10-20"

**Example:** VisualRecognition

"/v1/ExternalAPI/IBM/VisualRecognition/classify?url=https%3A%2F%2Ff.ptcdn.info%2F053%2F040%2F000%2Fo2g3s96a4szm8m4aKep-o.jpg&version=2016-10-20"

"/v1/ExternalAPI/IBM/VisualRecognition/collections/1234/image?version=2016-10-20"

If the URL comprised of QueryString, the subPath of URL define between "$AppName" and "?" (question mark).

If the URL not comprised of QueryString, the subPath of URL define in back of "$AppName".

The subPath should be set a Partner, ServiceCategory, APIName, subAPIName ect. and then the application shall set the level of subPath at 1, 2, 3, 4, …, follow the subPath named "Partner", "ServiceCategory", "APIName", …, respectively in instance.

#### [ExtAPI1-ExtAPI-01-002-1]

The application shall check value of "Partner" and URL format as described below:

1. In case of "Partner" is "IBM" and valid URL format, the application shall perform process as defined in section [5.1.1 IBM API Request Message Handling Function](#_5.1.1_IBM-Watson_Service)
2. In case of unknown URL
   1. "AppVersion" is not "v1"
   2. "AppName" is not "ExternalAPI"
   3. "Partner" is not "IBM"
   4. Invalid URL format

The application shall return error response message back to the requester, with resultCode "Unknown URL (40400)" as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **M/O** | **SV/MV** | **Description / Example** |
| resultCode | M | SV | Indicates a specified request is successfully or fails. |
| developerMessage | M | SV | Result description |
| moreInfo | O | SV | More detailed information.  Get value from EC02 configuration named **"ErrorCode-$resultCode"** for example; "ErrorCode-50000", "ErrorCode-40401". |
| userMessage | O | SV | Information for user.  Get value from EC02 configuration named **"ErrorCode-$resultCode"** for example; "ErrorCode-50000", "ErrorCode-40401". |
| errorNode | O | SV | Indicates a specified node name that error.  A condition of parameter named "errorNode" define in section [[ExtAPI1-ExtAPI-05-002-1]](#_[ExtAPI1-ExtAPI-05-002-1]) |

**Example:**

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot; : &quot;40400&quot;,

&quot;developerMessage&quot; : &quot;Unknown URL&quot;,

&quot;moreInfo&quot; : &quot;http://extapi.ais.error/40400&quot;,

&quot;userMessage&quot; : &quot;Unknown URL&quot;,

&quot;errorNode&quot; : &quot;ExtAPI&quot;

}" />

The application shall increment a statistic value named "ExtAPI Received Unknown Request".  
 The application shall increment a statistic value named "ExtAPI Returned Unknown Error".

The application will perform no further processing.

### 5.1.1 IBM API Request Message Handling Function

#### [ExtAPI1-ExtAPI-01-003-1]

Upon received of IBM API request message from SACF over the HTTP interface, the application shall extract following mandatory (M), Optional Mandatory (Om) or Optional Condition parameters (Oc) unless being specified as Optional parameters (O) from the received message as follows:

***Protocol***

HTTP

***Method***

POST, PUT, GET, DELETE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Header | |  |  |  | Header name each service API  **Example:**   * Content-Language * Accept-Language |
|  | x-app | String | M | SV | Application name who call API  **Example:**   * appName=myAis; appVersion=1.0.1; * site=Site-Playbox\_IOT\_B2C; node=Node-pantry-Playbox\_IOT-11; partnerId=28000; ptsAppKeyName=myAis|Android|1.0.0; |
|  | x-command-id | String | M | SV | Session unique id  **Format:** AppName-CurrentMillisec-Random(4)  **Example:** myAis-1505981226052-0001 |
| Body | | String | O | MV | The body message each service API |

**Example:** PersonalityInsights

URL="/v1/ExternalAPI/IBM/PersonalityInsights/profile?version=2017-10-20"

<ERDHeader>

<Header name="Host" value="127.0.0.1:23600" />

<Header name="x-app" value="appName=myAis; appVersion=1.0.1" />  
 <Header name="x-command-id" value="myAis-1505981226052-0001" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Length" value="869" />

<Header name="REMOTE\_ADDR" value="127.0.0.1" />

</ERDHeader>

<ERDData value="{

&quot;contentItems&quot;: [{

&quot;content&quot;: &quot;The IBM Watson Personality Insights service provides a Representational State Transfer (REST) Application Programming Interface (API) that enables applications to derive insights from social media, enterprise data, or other digital communications. The service uses linguistic analytics to infer individuals&apos; intrinsic personality characteristics, including Big Five, Needs, and Values, from digital communications such as email, text messages, tweets, and forum posts. The service can automatically infer, from potentially noisy social media, portraits of individuals that reflect their personality characteristics. The service can report consumption preferences based on the results of its analysis, and for JSON content that is timestamped, it can report temporal behavior.&quot;,

&quot;contenttype&quot;: &quot;text/plain&quot;,

&quot;language&quot;: &quot;en&quot;

}]

}" />

**Example:** VisualRecognition

URL="/v1/ExternalAPI/IBM/VisualRecognition/classify?url=https%3A%2F%2Ff.ptcdn.info%2F053%2F040%2F000%2Fo2g3s96a4szm8m4aKep-o.jpg&version=2016-10-20"

<ERDHeader>

<Header name="Host" value="127.0.0.1:23600" />

<Header name="x-app" value="appName=myAis; appVersion=1.0.1" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Length" value="0" />

<Header name="REMOTE\_ADDR" value="127.0.0.1" />

</ERDHeader>

<ERDData value="" />

The requester should be sent possibly the "x-app" value as 2 format description as below:

1. Login v1

**x-app format:** appName=$appName; appVersion=$appVersion;  
 **Example:** **appName=myAis**; appVersion=1.0.1;

1. Login v2

**x-app format:** site=$site; node=$node; partnerId=$partnerId; ptsAppKeyName=$ptsAppKeyName;  
 **ptsAppKeyName format:** $appName|$platformName|$appVersion **Example:** site=Site-Playbox\_IOT\_B2C; node=Node-pantry-Playbox\_IOT-11; partnerId=28000; **ptsAppKeyName=DemoWatson|Android|1.0.0**;

The application shall look up "appName" and "appVersion", if not found it parameter and then the application shall look up "ptsAppKeyName" to get appName.

If any of mandatory parameter is **missing** or the value of any parameters is **incorrect** format, the application shall increment a statistic value named "ExtAPI Received IBM API Bad Request".

Then the application shall return error response message back to the requester, with resultCode "Missing or invalid parameter (40300)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

The application will perform no further processing.

#### [ExtAPI1-ExtAPI-01-004-1]

Upon received of **valid** IBM API request message, the application shall increment a statistic value named "ExtAPI Received IBM API Request".

#### [ExtAPI1-ExtAPI-01-005-1]

A four steps method should be adapted to accomplish IBM API request.

1. The application shall **Get ServiceCredential** from Service Management to get
   1. Credential (Username, Password and apiKey)
   2. API endpoint
2. The application shall **Search E01 DNSPartner** to get
   1. API url
   2. Type of Authentication
   3. Request header name
3. The application shall **call service’s API** to SACF
4. The application shall **Search E01 ErrorPartner** to get resultCode and developerMessage which set into response message back to the requester.

#### [ExtAPI1-ExtAPI-01-006-1]

The application shall perform process as described in section [5.2.1 Get Service Credential Function](#_5.2.1_Get_Service_1)

## 5.2 Service Management Handling Function

### 5.2.1 Get Service Credential Function

#### [ExtAPI1-ExtAPI-02-001-1]

The application shall construct **Get ServiceCredential** request message to Service Management as follows:

***Protocol***

HTTP

***Method***

GET

***URL***

"/$ServMngURL/$ServiceCategory?appName=$appName"

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** | | | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| URL | | |  |  |  |  |
|  | | ServMngURL | String | M | SV | URL call Get ServiceCredential to ServMng  **Format:** /$AppVersion/$AppName/$CommandName  **Example:** /v1/ServiceManagement/ServiceCredential  Get value from EC02 configuration named "url-ServMng-GetServiceCredential" |
|  | ServiceCategory | | String | M | SV | ServiceCategoryname  **Example:** VisualRecognition  Get value "ServiceCategory" from first request. |
|  | appName | | String | M | SV | Application name who call API  **Example:** myAis  Get value "appName" in "x-app" header from first request message. |
| Header | | |  |  |  |  |
|  | x-command-id | | String | M | SV | Session unique id  **Format:** AppName-CurrentMillisec-Random(4)  **Example:** myAis-1505981226052-0001  Get value "x-command-id" header from first request message. |
| Body | | |  |  |  |  |
|  | -NONE- | |  |  |  |  |

**Note:** The application shall encoding a queryString value with the algorithm "UTF-8".

**Example:**

URL= "/v1/ServiceManagement/ServiceCredential/PersonalityInsights?appName=myAis"

<ERDHeader>

<Header name="x-command-id" value="myAis-1505981226052-0001" />

</ERDHeader>

<ERDData value=""/>

The application shall increment a statistic value named "ExtAPI Sent ServMng GetServiceCredential Request".

#### [ExtAPI1-ExtAPI-02-002-1] retry condition

The application must be able to retry **Get ServiceCredential** according to the EC02 configuration named "Enable-To-Retry-GetServiceCredential"

**Example:**

<Enable-To-Retry-GetServiceCredential value = "1|2|3|4" />

**Note:** "1" is means the application shall retry when equinox return Error (ret = 1)

"2" is means the application shall retry when equinox return Reject (ret = 2)

"3" is means the application shall retry when equinox return Abort (ret = 3)

"4" is means the application shall retry when equinox return Timeout (ret = 4)

The application must be able to retry until Get ServiceCredential retry limit exceeded according to the EC02 configuration named "Maximum-Retry-GetServiceCredential"

**Example:**

<Maximum-Retry-GetServiceCredential value = "2" />

#### [ExtAPI1-ExtAPI-02-003-1]

If the Service Management does not response (ret = 4), the application shall increment a statistic value named "ExtAPI Recv ServMng GetServiceCredential Timeout".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-02-004-1]

If the Service Management return Error (ret = 1), the application shall increment a statistic value named "ExtAPI Recv ServMng GetServiceCredential Error".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-02-005-1]

If the Service Management return Reject (ret = 2), the application shall increment a statistic value named "ExtAPI Recv ServMng GetServiceCredential Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-02-006-1]

If the Service Management return Abort (ret = 3), the application shall increment a statistic value named "ExtAPI Recv ServMng GetServiceCredential Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-02-007-1] Validate message

If the Service Management return Get ServiceCredential response message, the application shall extract the following mandatory fields unless being specified as Optional Mandatory (Om) or Optional Condition (Oc) from the received message as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| resultCode | Number | M | SV | Result status  **Example:**   * 20000 * 50000 |
| developerMessage | String | O | SV | Description status  **Example:**   * Success * System error |
| errorMessageStack | String | O | MV | stack trace displayed as part of an error message which servers were called.  **Example:**  [{  "node": "ServMng",  "resultCode": "32",  "developerMessage": "NO\_SUCH\_OBJECT"  }] |
| username | String | O | SV | User name  **Example:** bc93eb8a-341b-40a7-9800-127ee35cc664 |
| password | String | O | SV | Password  **Example:** FAM6GfxGA3GF |
| apiKey | String | O | SV | API Key used to authenticate.  **Example:** dd7aedfb58cd7c4415db79cad726b1d66ea49ab4 |
| url | String | Om | SV | API endpoint  **Example:** <https://gateway.watsonplatform.net/personality-insights/api>  **Note:** It must be mandatory when successful result |

**Example:** success response message with "PersonalityInsights" ServiceCategory

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot;: &quot;20000&quot;,

&quot;developerMessage&quot;: &quot;Success&quot;,

&quot;username&quot;: &quot;bc93eb8a-341b-40a7-9800-127ee35cc664&quot;,

&quot;password&quot;: &quot;FAM6GfxGA3GF&quot;,

&quot;url&quot;: &quot;https://gateway.watsonplatform.net/personality-insights/api&quot;

}"/>

**Example:** success response message with "VisualRecongition" ServiceCategory

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot;: &quot;20000&quot;,

&quot;developerMessage&quot;: &quot;Success&quot;,

&quot;apiKey&quot;: &quot;dd7aedfb58cd7c4415db79cad726b1d66ea49ab4&quot;,

&quot;url&quot;: &quot;https://gateway-a.watsonplatform.net/visual-recognition/api&quot;

}"/>

**Example:** error response message

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot;: &quot;50000&quot;,

&quot;developerMessage&quot;: &quot;System error&quot;,

&quot;errorMessageStack&quot;: [{

&quot;node&quot;: &quot;ServMng&quot;,

&quot;resultCode&quot;: &quot;32&quot;,

&quot;developerMessage&quot;: &quot;NO\_SUCH\_OBJECT&quot;

}]

}"/>

If any of mandatory parameter is **missing** or the value of any parameters is **incorrect** format, the application shall increment a statistic value named "ExtAPI Recv ServMng Bad GetServiceCredential Response".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-02-008-1]

If the Service Management return Get ServiceCredential valid response message with unsuccessful result (**ecode** is not 200 or **resultCode** is not 20000), the application shall increment a statistic value named "ExtAPI Recv ServMng GetServiceCredential Error".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-02-009-1]

If the Service Management return Get ServiceCredential valid response message with successful result (**ecode** is 200 and **resultCode** is 20000), the application shall increment a statistic value named "ExtAPI Recv ServMng GetServiceCredential Response".

Then the application shall perform process as described in section [5.3.1 Search DNS Partner Function](#_5.3.1_Search_DNS)

## 5.3 E01 Handling Function

### 5.3.1 Search DNS Partner Function

#### [ExtAPI1-ExtAPI-03-001-1]

The application shall get API url and Type of Authentication from table "DNSPartner" in E01 by using the value of subPath from first request message derive from below restriction as a key filters.

1. A value of key0, key5, key15, key20, …, the application must be set value as "0".
2. A remaining key, the application shall set value follow the level of subPath from first request for example as below:

**Example-01:** URL define 5 subPath

URL: "/v1/ExtAPI/**IBM/VisualRecognition/collection/1234/images**?version=2016-05-20"

|  |  |
| --- | --- |
| **subPath** | **Level of subPath** |
| IBM | 1 |
| VisualRecognition | 2 |
| collection | 3 |
| 1234 | 4 |
| images | 5 |

Then the application shall mapping key filters by the level of subPath as below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Command | String | M | SV | Search |
| ObjectType | String | M | SV | **Set:** DNSPartner |
| key0 | String | M | SV | **Set:** 0 |
| key1 | String | M | SV | Get value from subPath level 1  **Example:** IBM |
| key2 | String | M | SV | Get value from subPath level 2  **Example:** VisualRecognition |
| key3 | String | M | SV | Get value from subPath level 3  **Example:** collection |
| key4 | String | M | SV | Get value from subPath level 4  **Example:** 1234 |
| key5 | String | M | SV | **Set:** 0 |
| key6 | String | M | SV | Get value from subPath level 5  **Example:** images |
| key7 | String | M | SV | **Set:** "" (empty) |
| key8 | String | M | SV | **Set:** "" (empty) |
| key9 | String | M | SV | **Set:** "" (empty) |

**Example:**

<ext-message command="search" id="4e3408" objecttype ="DNSPartner" key="0,IBM,VisualRecognition, collection,1234,0,image,,," data="" />

**Example-02:** URL define 3 subPath

URL: "/v1/ExternalAPI/**IBM/PersonalityInsights/profile**?version=2017-10-20"

|  |  |
| --- | --- |
| **subPath** | **Level of subPath** |
| IBM | 1 |
| PersonalityInsights | 2 |
| profile | 3 |

Then the application shall mapping key filters by the level of subPath as below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Command | String | M | SV | Search |
| ObjectType | String | M | SV | **Set:** DNSPartner |
| key0 | String | M | SV | **Set:** 0 |
| key1 | String | M | SV | Get value from subPath level 1  **Example:** IBM |
| key2 | String | M | SV | Get value from subPath level 2  **Example:** PersonalityInsights |
| key3 | String | M | SV | Get value from subPath level 3  **Example:** profile |
| key4 | String | M | SV | **Set:** "" (empty) |

**Example:**

<ext-message command="search" id="4e3408" objecttype ="DNSPartner" key="0,IBM,PersonalityInsights,profile," data="" />

The application shall increment a statistic value named "ExtAPI Sent E01 Search DNSPartner Request".

#### [ExtAPI1-ExtAPI-03-002-1] retry condition

The application must be able to retry **Search DNSPartner** according to the EC02 configuration named "Enable-To-Retry-SearchDNSPartner"

**Example:**

<Enable-To-Retry-SearchDNSPartner value = "1|2|3|4" />

**Note:** "1" is means the application shall retry when equinox return Error (ret = 1)

"2" is means the application shall retry when equinox return Reject (ret = 2)

"3" is means the application shall retry when equinox return Abort (ret = 3)

"4" is means the application shall retry when equinox return Timeout (ret = 4)

The application must be able to retry until Search DNSPartner retry limit exceeded according to the EC02 configuration named "Maximum-Retry-SearchDNSPartner"

**Example:**

<Maximum-Retry-SearchDNSPartner value = "2" />

#### [ExtAPI1-ExtAPI-03-003-1]

If the E01 does not response (ret = 4), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Timeout".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-004-1]

If the E01 return Error (ret = 1), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Error".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-005-1]

If the E01 return Reject (ret = 2), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-006-1]

If the E01 return Abort (ret = 3), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-007-1]

If the E01 return no such object response (resultcode is 32), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Error".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-008-1]

If the E01 return unsuccessful response (resultcode is not 0 and 32), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Error".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-009-1] Validate message

If the E01 return successful response (resultcode is 0), the application shall extract the following mandatory fields unless being specified as Optional Mandatory (Om) or Optional Condition (Oc) from the received message as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Command | | String | M | SV | Search |
| ObjectType | | String | M | SV | **Set:** DNSPartner |
| key[0,1,2,…] | | String | M | SV | Key filters are follow the request message. |
| data | |  |  |  |  |
|  | service | String | O | SV | Resource Adaptors used to call service’s API  **Example:** ExternalAPI.ES04.Watson |
|  | url | String | M | SV | API url  **Example:**   * /v3/profile * /v3/collection/$resource\_4/images |
|  | authenType | String | M | SV | Type of Authentication   * apiKey * userPwd |
|  | requestHeader | Array | M | MV | Define list of header that forward to SACF when call API.  **Example:**   * ["Content-Type", "Accept", "Accept-Language"] * [] (can be empty value) |

**Example:**

{

"service": "ExternalAPI.ES04.Watson",

"url": "/v3/profile",

"authenType": "userPwd",

"requestHeader": [Content-Type", "Accept", "Content-Language", "Accept-Language", "X-Watson-Learning-Opt-Out"]

}

If any of mandatory parameter is **missing** or the value of any parameters is **incorrect** format, the application shall increment a statistic value named "ExtAPI Recv E01 Bad Search DNSPartner Response".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-010-1]

If the E01 return Search DNS Partner valid response message with successful result (resultCode is 0), the application shall increment a statistic value named "ExtAPI Recv E01 Search DNSPartner Response".

The application shall check condition as described below:

1. If "authenType" is "apiKey", the GetServiceCredential response message must be comprised of "apiKey".
2. If "authenType" is "userPwd", the GetServiceCredential response message must be comprised of "username" and "password".

If condition above is **not true**, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

If condition above is **true**, the application shall perform process as described in section [[ExtAPI1-ExtAPI-03-011-1]](#_[ExtAPI1-ExtAPI-03-011-1])

#### [ExtAPI1-ExtAPI-03-011-1]

The application shall check value of "url" from Search DNSPartner response message.

In case of "url" comprised of "$resource\_x", the application shall replace value by using the value of subPath from first request message for example as below:

|  |  |  |  |
| --- | --- | --- | --- |
| **subPath** | **Level of subPath** | **resource number** | **value** |
| IBM | 1 | resource\_1 | Get value from subPath level 1  **Example:** IBM |
| VisualRecognition | 2 | resource\_2 | Get value from subPath level 2  **Example:** VisualRecognition |
| collection | 3 | resource\_3 | Get value from subPath level 3  **Example:** collection |
| 1234 | 4 | resource\_4 | Get value from subPath level 4  **Example:** 1234 |
| images | 5 | resource\_5 | Get value from subPath level 5  **Example:** images |
|  |  | resource\_x | Get value from subPath level x |

If the level of subPath not available, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

If replace successful, the application shall perform process as described in section [5.4 External API Management Call API Handling Function](#_5.4_External_API)

### 5.3.2 Search Error Partner Function

#### [ExtAPI1-ExtAPI-03-012-1]

The application shall construct **Search ErrorPartner** request message to E01 as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Command | String | M | SV | Search |
| ObjectType | String | M | SV | **Set:** ErrorPartner |
| key0 | String | M | SV | **Set:** 0 |
| key1 | String | M | SV | Partner name  **Example:** IBM  Get value "Partner" in URL from first request message. |
| key2 | String | M | SV | API method  **Example:** POST  Get value "Method" from first request message (upper case) |
| key3 | String | M | SV | Service Category name  **Example:** PersonalityInsights  Get value "ServiceCategory" in URL from first request message. |
| key4 | String | M | SV | API url  **Example:** /v3/profile  Get value "url" from Search DNS Partner response message. |
| key5 | String | M | SV | **Set:** 0 |
| key6 | String | M | SV | Ecode  **Example:** 200  Get value "ecode" from API response message |
| key7 | String | M | SV | **Set:** "" (empty) |
| key8 | String | M | SV | **Set:** "" (empty) |
| key9 | String | M | SV | **Set:** "" (empty) |

**Example:**

<ext-message command="search" id="4e3408" objecttype ="ErrorPartner" key="0,IBM,POST,PersonalityInsights,/v3/profile,0,200,,," data="" />

The application shall increment a statistic value named "ExtAPI Sent E01 Search ErrorPartner Request".

#### [ExtAPI1-ExtAPI-03-013-1] retry condition

The application must be able to retry **Search ErrorPartner** according to the EC02 configuration named "Enable-To-Retry-SearchErrorPartner"

**Example:**

<Enable-To-Retry-SearchErrorPartner value = "1|2|3|4" />

**Note:** "1" is means the application shall retry when equinox return Error (ret = 1)

"2" is means the application shall retry when equinox return Reject (ret = 2)

"3" is means the application shall retry when equinox return Abort (ret = 3)

"4" is means the application shall retry when equinox return Timeout (ret = 4)

The application must be able to retry until Search ErrorPartner retry limit exceeded according to the EC02 configuration named "Maximum-Retry-SearchErrorPartner"

**Example:**

<Maximum-Retry-SearchErrorPartner value = "2" />

#### [ExtAPI1-ExtAPI-03-014-1]

If the E01 does not response (ret = 4), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Timeout".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-015-1]

If the E01 return Error (ret = 1), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Error".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-016-1]

If the E01 return Reject (ret = 2), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-017-1]

If the E01 return Abort (ret = 3), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-018-1]

If the E01 return no such object response (resultcode is 32), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Error".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-019-1]

If the E01 return unsuccessful response (resultcode is not 0 and 32), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Error".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-020-1] Validate message

If the E01 return successful response (resultcode is 0), the application shall extract the following mandatory fields unless being specified as Optional Mandatory (Om) or Optional Condition (Oc) from the received message as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Command | String | M | SV | Search |
| ObjectType | String | M | SV | **Set:** ErrorPartner |
| key0 | String | M | SV | **Set:** 0 |
| key1 | String | M | SV | Partner name  **Example:** IBM  Get value "Partner" in URL from first request message. |
| key2 | String | M | SV | API method  **Example:** POST  Get value "Method" from first request message (upper case) |
| key3 | String | M | SV | Service Category name  **Example:** PersonalityInsights  Get value "ServiceCategory" in URL from first request message. |
| key4 | String | M | SV | API url  **Example:** /v3/profile  Get value "url" from Search DNS Partner response message. |
| key5 | String | M | SV | **Set:** 0 |
| key6 | String | M | SV | Ecode  **Example:** 200  Get value "ecode" from API response message |
| key7 | String | M | SV | **Set:** "" (empty) |
| key8 | String | M | SV | **Set:** "" (empty) |
| key9 | String | M | SV | **Set:** "" (empty) |
| data | String | M | MV | Conditional sentence to define output back to SACF.  **Format:** $condition1 ; $response1 | … | $conditionx ; $responsex |

**E01 data format:** $condition1 ; $response1 | … | $conditionx ; $responsex

**$condition**

**condition sentence format:** $value1 $operator $value2

**Possibly value1:**

* Object class name is mean the name of classes each api for example; image.error.description
* "default" is mean the default condition when response message does not match with any condition.
* "$response" is mean the response body from SACF convert to string.

**Possibly value2:**

* The any string for example; ""(empty string), "Not Authorized", "invalid-api-key" etc.

**available operator:**

* ==, eq is means "value1" is equal to "value2"
* !=, ne is means "value1" is not equal to "value2"
* AND, and logical and
* OR, or logical or

**$response**

**response format:**

* "$response" must be comprised of "resultCode", "developerMessage" and any parameter (optional) for example; "data", "image", "personality" etc.
* If "$response" comprised of "{@data}", the application shall get response body from Partner and set into response message.
* {@data} can be set the any object class name which returned in response message for example; [{@data.images}](mailto:%7b@data.images%7d), [{@data.image[0]}](mailto:%7b@data.image[0]%7d), [{@data.image[0].classifiers.classes}](mailto:%7b@data.image[0].classifiers.classes%7d) etc. describe as below:



**Example:**

images.classifiers != "" ; {"resultCode":"20000","developerMessage":"Success", "data":{@data}} |

images.classifiers != "" ; {"resultCode":"20000","developerMessage":"Success", "custom\_classes":{@data.custom\_classess}, "images":{@data.images}, "images\_processed":{@data.images\_processed}} |

statusInfo == "invalid-api-key" AND status == "ERROR" ; {"resultCode":"40100","developerMessage":"Access is denied due to invalid credentials"} |

images.error.description == "Failed fetching URL" ; {"resultCode":"40401","developerMessage":"URL Not found"} |

$response == "{}" ; {"resultCode":"20000","developerMessage":"Success"} |

default ; {"resultCode":"50000","developerMessage":"System error"}

If any of mandatory parameter is **missing** or the value of any parameters is **incorrect** format, the application shall increment a statistic value named "ExtAPI Recv E01 Bad Search ErrorPartner Response".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-03-021-1]

If the E01 return Search ErrorPartner valid response message with successful result (resultCode is 0), the application shall increment a statistic value named "ExtAPI Recv E01 Search ErrorPartner Response".

The application shall consider API response message from the Partner that match with any condition sentence from E01 response message or not?

1. If out of condition, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)
2. If pass with condition but $response is invalid format, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)
3. But if pass with condition and valid $response format, the application shall get "resultCode" and "developerMessage" from "$response" and return response message back to the requester.

In additional, if "$response" comprised of "{@data}", the application shall get response body from the Partner and then set into response message back to the requester too.

The response body as described in section [5.5 External API Management Response Message Handling Function](#_5.5_External_API)

## 5.4 External API Management Call API Handling Function

### 5.4.1 IBM-Watson Partner

#### [ExtAPI1-ExtAPI-04-001-1]

The application shall check authentication type which resolved in section 5.3.1 Search DNS Partner Function

1. If "authenType" is "apiKey", the application shall set ***query string*** named "api\_key" into HTTP Header named "x-redirect-url".

**Example:**

<Header name="x-redirect-url" value="http://gateway-a.watsonplatform.net%2Fvisual-recognition/api/v3/detect\_faces?**api\_key=dd7aedfb58cd7c4415db79cad726b1d66ea49ab4**&url=https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&version=2016-05-20" />

**Note:** value of "api\_key" resolved in section 5.2.1 Get ServiceCredential Function and encoding api\_key value with the algorithm "UTF-8"

1. If "authenType" is "userPwd", the application shall construct ***HTTP header*** named "Authorization" as basic authentication scheme described below:

"username" + ":" + "password" and encryption with the algorithm "base 64"

**Example:**

<Header name="Authorization" value="Basic Y2ZiOWUzMjEtYjdjMy00MTg4LTk4YWQtMDE2NTRkZmE2YTc5OmJPazA2Ukg2SHpORg==" />

**Note:** value of "username" and "password resolved in section 5.2.1 Get ServiceCredential Function

#### [ExtAPI1-ExtAPI-04-002-1]

The application shall construct **IBM API** request message to SACF by using HTTP method, HTTP header and HTTP body follow the first request message described as below:

1. The application shall get HTTP method from first request message.
2. The application shall get HTTP header from first request message which get the only header that matched "requestHeader" from E01 DNSPartner response message.
3. The application shall get HTTP body from first request message.

**Note:** In section 1 if value of method is "GET", the application does not get HTTP body value.

1. The application shall get QueryString from first request message and set into "x-redirect-url" header.

**Example for getting header value:**

**The first request message:**

<ERDHeader>

<Header name="Host" value="127.0.0.1:23600" />

<Header name="x-app" value="appName=myAis; appVersion=1.0.1" />

<Header name="x-command-id" value="myAis-1505981226052-0001" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Length" value="869" />

<Header name="REMOTE\_ADDR" value="127.0.0.1" />

</ERDHeader>

**E01 DNSPartner response message:**

{

"service": "ExternalAPI.ES04.Watson",

"url": "/v3/profile",

"authenType": "userPwd",

"requestHeader": [Content-Type", "Accept", "Content-Language", "Accept-Language", "X-Watson-Learning-Opt-Out"]

}

**Output:**

<ERDHeader>

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

</ERDHeader>

***Protocol***

HTTP

***Method***

Get value "Method" from first request message

***URL***

"/api/v1/ExtAPI/eventNotification.json"

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Element** | | | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| URL | | | String | M |  | Get value from EC02 configuration named "url-SACF"  **Example:** /api/v1/ExtAPI/eventNotification.json |
| Header | | |  |  |  | Get header from first request message. |
|  | x-redirect-url | | String | M | SV | **Format:** $api\_endpoint$api\_url?$api\_key&$QueryString  **Example:** https://gateway.watsonplatform.net/personality-insights/api/v3/profile?version=2016-10-20 |
|  |  | api\_endpoint | String | M | SV | API endpoint.  **Examxple:** https://gateway.watsonplatform.net/personality-insights/api  Get value "url" from Get ServiceCredenetial response message. |
|  |  | api\_url | String | M | SV | API url  **Example:** /v3/profile  Get value "url" from Search DNS Partner response message. |
|  |  | api\_key | String | O | SV | API key used to Authenticate.  **Example:** dd7aedfb58cd7c4415db79cad726b1d66ea49ab4  Get value "api\_key" from Get ServiceCredenetial response message.  **Note:** the application shall sent this value when "authenType" from Search DNS Partner is "apiKey" |
|  |  | QureyString | String | O | MV | Get value "QureyString" from first request message. |
|  | Authorization | | String | O | SV | Basic Authorization: username and password used to Authenticate.  **Example:** Basic Y2ZiOWUzMjEtYjdjMy00MTg4LTk4YWQtMDE2NTRkZmE2YTc5OmJPazA2Ukg2SHpORg==  **Note:** the application shall sent this value when "authenType" from Search DNS Partner is "userPwd" |
| Body | | | String | O | MV | Get body message from first request message. |

**Example:** PersonalityInsights API profile with "userPwd" authenType

URL = "/api/v1/ExtAPI/eventNotification.json"

<ERDHeader>

<Header name="Authorization" value="Basic YmM5M2ViOGEtMzQxYi00MGE3LTk4MDAtMTI3ZWUzNWNjNjY0OkZBTTZHZnhHQTNHRg==" />

<Header name="x-redirect-url" value="https://gateway.watsonplatform.net/personality-insights/api/v3/profile?version=2016-10-20" />

<Header name="Content-Type" value="application/json" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

</ERDHeader>

<ERDData value="{

&quot;contentItems&quot;: [{

&quot;content&quot;: &quot;The IBM Watson Personality Insights service provides a Representational State Transfer (REST) Application Programming Interface (API) that enables applications to derive insights from social media, enterprise data, or other digital communications. The service uses linguistic analytics to infer individuals&apos; intrinsic personality characteristics, including Big Five, Needs, and Values, from digital communications such as email, text messages, tweets, and forum posts. The service can automatically infer, from potentially noisy social media, portraits of individuals that reflect their personality characteristics. The service can report consumption preferences based on the results of its analysis, and for JSON content that is timestamped, it can report temporal behavior.&quot;,

&quot;contenttype&quot;: &quot;text/plain&quot;,

&quot;language&quot;: &quot;en&quot;

}]

}" />

The application shall increment a statistic value named "ExtAPI Sent SACF IBM API Request".

The application shall handling IBM API response message as described in section [[ExtAPI1-ExtAPI-04-003-1] retry condition](#_[ExtAPI1-ExtAPI-04-007-1]_retry_con)

#### [ExtAPI1-ExtAPI-04-003-1] retry condition

The application must be able to retry **IBM API** according to the EC02 configuration named "Enable-To-Retry-API-IBM-Partner"

**Example:**

<Enable-To-Retry-API-IBM-Partner value = "1|2|3|4" />

**Note:** "1" is means the application shall retry when equinox return Error (ret = 1)

"2" is means the application shall retry when equinox return Reject (ret = 2)

"3" is means the application shall retry when equinox return Abort (ret = 3)

"4" is means the application shall retry when equinox return Timeout (ret = 4)

The application must be able to retry until IBM API retry limit exceeded according to the EC02 configuration named "Maximum-Retry-API-IBM-Partner"

**Example:**

<Maximum-Retry-API-IBM-Partner value = "2" />

#### [ExtAPI1-ExtAPI-04-004-1]

If the SACF does not response (ret = 4), the application shall increment a statistic value named "ExtAPI Recv SACF IBM API Timeout".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-04-005-1]

If the SACF return Error (ret = 1), the application shall increment a statistic value named "ExtAPI Recv SACF IBM API Error".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-04-006-1]

If the SACF return Reject (ret = 2), the application shall increment a statistic value named "ExtAPI Recv SACF IBM API Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-04-007-1]

If the SACF return Abort (ret = 3), the application shall increment a statistic value named "ExtAPI Recv SACF IBM API Reject/Abort".

The application shall retry by a retry enable and retry limit.

If retry limit exceeded or disable retry, the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

#### [ExtAPI1-ExtAPI-04-008-1]

If the SACF return response message, the application shall extract the following mandatory fields unless being specified as Optional Mandatory (Om) or Optional Condition (Oc) from the received message as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | | **Type** | **M/O** | **SV/MV** | **Description / Example** |
| Header | |  |  |  |  |
|  | Content-Type | String | M | SV | The content type of the response  **Example:**   * application/json * text/html * text/xml   SACF can be return whatever header back to ExtAPI. |
| Body | | Object | O | MV | SACF can be return whatever body response message back to ExtAPI. |

##### **Example-01:** API POST profile with ecode "401"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;code&quot;: 401,

&quot;error&quot;: &quot;Not Authorized&quot;,

&quot;description&quot;: &quot;No credentials supplied.&quot;

}" />

##### **Example-02:** API GET classify with ecode "400"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;error&quot;: {

&quot;code&quot;: 400,

&quot;description&quot;: &quot;Please supply a date version parameter, like &apos;&amp;version=2016-05-17&apos;.&quot;,

&quot;error\_id&quot;: &quot;parameter\_error&quot;

},

&quot;images\_processed&quot;: 0

}" />

##### **Example-03:** API GET detect\_faceswith ecode "400"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;error&quot;:

{

&quot;code&quot;: 400,

&quot;description&quot;: &quot;No images were specified.&quot;,

&quot;error\_id&quot;: &quot;input\_error&quot;

},

&quot;images\_processed&quot;: 0

}" />

##### **Example-04:** API POST profile with ecode "200"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;word\_count&quot;: 103,

&quot;word\_count\_message&quot;: &quot;There were 103 words in the input. We need a minimum of 600, preferably 1,200 or more, to compute statistically significant estimates&quot;,

&quot;processed\_language&quot;: &quot;en&quot;,

&quot;personality&quot;: [{

&quot;trait\_id&quot;: &quot;big5\_openness&quot;,

&quot;name&quot;: &quot;Openness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9419901585070444,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_adventurousness&quot;,

&quot;name&quot;: &quot;Adventurousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7039184189857008

}, {

&quot;trait\_id&quot;: &quot;facet\_artistic\_interests&quot;,

&quot;name&quot;: &quot;Artistic interests&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.25012526123098966

}, {

&quot;trait\_id&quot;: &quot;facet\_emotionality&quot;,

&quot;name&quot;: &quot;Emotionality&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.06114166098801965

}, {

&quot;trait\_id&quot;: &quot;facet\_imagination&quot;,

&quot;name&quot;: &quot;Imagination&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.5842673131490224

}, {

&quot;trait\_id&quot;: &quot;facet\_intellect&quot;,

&quot;name&quot;: &quot;Intellect&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9352859036042205

}, {

&quot;trait\_id&quot;: &quot;facet\_liberalism&quot;,

&quot;name&quot;: &quot;Authority-challenging&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9911495661857173

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_conscientiousness&quot;,

&quot;name&quot;: &quot;Conscientiousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.37171487595491015,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_achievement\_striving&quot;,

&quot;name&quot;: &quot;Achievement striving&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7118571645159613

}, {

&quot;trait\_id&quot;: &quot;facet\_cautiousness&quot;,

&quot;name&quot;: &quot;Cautiousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.800612567487107

}, {

&quot;trait\_id&quot;: &quot;facet\_dutifulness&quot;,

&quot;name&quot;: &quot;Dutifulness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.39992000108860976

}, {

&quot;trait\_id&quot;: &quot;facet\_orderliness&quot;,

&quot;name&quot;: &quot;Orderliness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.16614259488044453

}, {

&quot;trait\_id&quot;: &quot;facet\_self\_discipline&quot;,

&quot;name&quot;: &quot;Self-discipline&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.6799427224453404

}, {

&quot;trait\_id&quot;: &quot;facet\_self\_efficacy&quot;,

&quot;name&quot;: &quot;Self-efficacy&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7488003647788268

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_extraversion&quot;,

&quot;name&quot;: &quot;Extraversion&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.769825199283471,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_activity\_level&quot;,

&quot;name&quot;: &quot;Activity level&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.8186842409101049

}, {

&quot;trait\_id&quot;: &quot;facet\_assertiveness&quot;,

&quot;name&quot;: &quot;Assertiveness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9368803673458745

}, {

&quot;trait\_id&quot;: &quot;facet\_cheerfulness&quot;,

&quot;name&quot;: &quot;Cheerfulness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.08568528494419031

}, {

&quot;trait\_id&quot;: &quot;facet\_excitement\_seeking&quot;,

&quot;name&quot;: &quot;Excitement-seeking&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.41737409880713605

}, {

&quot;trait\_id&quot;: &quot;facet\_friendliness&quot;,

&quot;name&quot;: &quot;Outgoing&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.11903701590788546

}, {

&quot;trait\_id&quot;: &quot;facet\_gregariousness&quot;,

&quot;name&quot;: &quot;Gregariousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.28885133262983254

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_agreeableness&quot;,

&quot;name&quot;: &quot;Agreeableness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.059676107963974434,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_altruism&quot;,

&quot;name&quot;: &quot;Altruism&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.15719464949941875

}, {

&quot;trait\_id&quot;: &quot;facet\_cooperation&quot;,

&quot;name&quot;: &quot;Cooperation&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.5311829109768751

}, {

&quot;trait\_id&quot;: &quot;facet\_modesty&quot;,

&quot;name&quot;: &quot;Modesty&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.07090707046748224

}, {

&quot;trait\_id&quot;: &quot;facet\_morality&quot;,

&quot;name&quot;: &quot;Uncompromising&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.12384491263638048

}, {

&quot;trait\_id&quot;: &quot;facet\_sympathy&quot;,

&quot;name&quot;: &quot;Sympathy&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.27095816026778674

}, {

&quot;trait\_id&quot;: &quot;facet\_trust&quot;,

&quot;name&quot;: &quot;Trust&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9247631005981167

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_neuroticism&quot;,

&quot;name&quot;: &quot;Emotional range&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.6755651399913001,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_anger&quot;,

&quot;name&quot;: &quot;Fiery&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.3391256730478402

}, {

&quot;trait\_id&quot;: &quot;facet\_anxiety&quot;,

&quot;name&quot;: &quot;Prone to worry&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.5666725848376579

}, {

&quot;trait\_id&quot;: &quot;facet\_depression&quot;,

&quot;name&quot;: &quot;Melancholy&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7616169291993752

}, {

&quot;trait\_id&quot;: &quot;facet\_immoderation&quot;,

&quot;name&quot;: &quot;Immoderation&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.006761221762454028

}, {

&quot;trait\_id&quot;: &quot;facet\_self\_consciousness&quot;,

&quot;name&quot;: &quot;Self-consciousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.6409526346582101

}, {

&quot;trait\_id&quot;: &quot;facet\_vulnerability&quot;,

&quot;name&quot;: &quot;Susceptible to stress&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.369675866131936

}]

}],

&quot;needs&quot;: [{

&quot;trait\_id&quot;: &quot;need\_challenge&quot;,

&quot;name&quot;: &quot;Challenge&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.35446753801682473

}, {

&quot;trait\_id&quot;: &quot;need\_closeness&quot;,

&quot;name&quot;: &quot;Closeness&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.2619340172144685

}, {

&quot;trait\_id&quot;: &quot;need\_curiosity&quot;,

&quot;name&quot;: &quot;Curiosity&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.7008245099261644

}, {

&quot;trait\_id&quot;: &quot;need\_excitement&quot;,

&quot;name&quot;: &quot;Excitement&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.279999893071971

}, {

&quot;trait\_id&quot;: &quot;need\_harmony&quot;,

&quot;name&quot;: &quot;Harmony&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.078902747687144

}, {

&quot;trait\_id&quot;: &quot;need\_ideal&quot;,

&quot;name&quot;: &quot;Ideal&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.17118039933618528

}, {

&quot;trait\_id&quot;: &quot;need\_liberty&quot;,

&quot;name&quot;: &quot;Liberty&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.3221545703405543

}, {

&quot;trait\_id&quot;: &quot;need\_love&quot;,

&quot;name&quot;: &quot;Love&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.5842129974071815

}, {

&quot;trait\_id&quot;: &quot;need\_practicality&quot;,

&quot;name&quot;: &quot;Practicality&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.7917636644483492

}, {

&quot;trait\_id&quot;: &quot;need\_self\_expression&quot;,

&quot;name&quot;: &quot;Self-expression&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.4390342914781338

}, {

&quot;trait\_id&quot;: &quot;need\_stability&quot;,

&quot;name&quot;: &quot;Stability&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.5012875168727058

}, {

&quot;trait\_id&quot;: &quot;need\_structure&quot;,

&quot;name&quot;: &quot;Structure&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.25900522208298893

}],

&quot;values&quot;: [{

&quot;trait\_id&quot;: &quot;value\_conservation&quot;,

&quot;name&quot;: &quot;Conservation&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.025139288861989018

}, {

&quot;trait\_id&quot;: &quot;value\_openness\_to\_change&quot;,

&quot;name&quot;: &quot;Openness to change&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.5327503661220926

}, {

&quot;trait\_id&quot;: &quot;value\_hedonism&quot;,

&quot;name&quot;: &quot;Hedonism&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.12470460303026076

}, {

&quot;trait\_id&quot;: &quot;value\_self\_enhancement&quot;,

&quot;name&quot;: &quot;Self-enhancement&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.25380038725178367

}, {

&quot;trait\_id&quot;: &quot;value\_self\_transcendence&quot;,

&quot;name&quot;: &quot;Self-transcendence&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.2861053071367743

}],

&quot;warnings&quot;: [{

&quot;warning\_id&quot;: &quot;WORD\_COUNT\_MESSAGE&quot;,

&quot;message&quot;: &quot;There were 103 words in the input. We need a minimum of 600, preferably 1,200 or more, to compute statistically significant estimates&quot;

}]

}" />

##### **Example-05:** API GET classify with ecode "200"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;custom\_classes&quot;: 0,

&quot;images&quot;: [

{

&quot;classifiers&quot;: [

{

&quot;classes&quot;: [

{

&quot;class&quot;: &quot;person&quot;,

&quot;score&quot;: 0.658

},

{

&quot;class&quot;: &quot;soul patch facial hair&quot;,

&quot;score&quot;: 0.506

},

{

&quot;class&quot;: &quot;people&quot;,

&quot;score&quot;: 0.502,

&quot;type\_hierarchy&quot;: &quot;/person/people&quot;

},

{

&quot;class&quot;: &quot;pompadour hairstyle&quot;,

&quot;score&quot;: 0.5,

&quot;type\_hierarchy&quot;: &quot;/person/pompadour hairstyle&quot;

},

{

&quot;class&quot;: &quot;ultramarine color&quot;,

&quot;score&quot;: 0.963

}

],

&quot;classifier\_id&quot;: &quot;default&quot;,

&quot;name&quot;: &quot;default&quot;

}

],

&quot;resolved\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&quot;,

&quot;source\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&quot;

}

],

&quot;images\_processed&quot;: 1

}" />

##### **Example-06:** API GET classify with ecode "200"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;status&quot;: &quot;ERROR&quot;,

&quot;statusInfo&quot;: &quot;invalid-api-key&quot;

}" />

##### **Example-07:** API GET detect\_faceswith ecode "200"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;images&quot;: [

{

&quot;faces&quot;: [

{

&quot;age&quot;: {

&quot;max&quot;: 24,

&quot;min&quot;: 18,

&quot;score&quot;: 0.502411

},

&quot;face\_location&quot;: {

&quot;height&quot;: 157,

&quot;left&quot;: 53,

&quot;top&quot;: 19,

&quot;width&quot;: 122

},

&quot;gender&quot;: {

&quot;gender&quot;: &quot;FEMALE&quot;,

&quot;score&quot;: 0.989013

}

}

],

&quot;resolved\_url&quot;: &quot;https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSL5FAozZ-wbqfuRi069H8bqse4E6Gzn59NHAyS121ou\_mtAhq7RQ&quot;,

&quot;source\_url&quot;: &quot;https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSL5FAozZ-wbqfuRi069H8bqse4E6Gzn59NHAyS121ou\_mtAhq7RQ&quot;

}

],

&quot;images\_processed&quot;: 1

}" />

##### **Example-08:** API GET detect\_faces with ecode "200"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept" value="application/json" />

<Header name="Content-Language" value="en" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="application/json" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="{

&quot;images&quot;: [

{

&quot;error&quot;: {

&quot;description&quot;: &quot;Failed fetching URL [https://f.ptcdn.info/053/040/000/o2g3s96a4szmKep-o.jpg]. Return code [404].&quot;,

&quot;error\_id&quot;: &quot;input\_error&quot;

},

&quot;resolved\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szmKep-o.jpg&quot;,

&quot;source\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szmKep-o.jpg&quot;

}

],

&quot;images\_processed&quot;: 1

}" />

##### **Example-09:** API POST classify with ecode "413" and "Content-Type" is "text/html"

<ERDHeader>

<Header name="Pragma" value="hop=1534193621:VS\_ExtAPI.ES05.SACF.0; end=" />

<Header name="Set-Cookie" value="host=; port=23500; via=auto; session=1534193621" />

<Header name="Accept-Language" value="en" />

<Header name="Content-Type" value="text/html" />

<Header name="Content-Length" value="712" />

</ERDHeader>

<ERDData value="&lt;html&gt;

&lt;head&gt;

&lt;title&gt;413 Request Entity Too Large&lt;/title&gt;

&lt;/head&gt;

&lt;body bgcolor=&quot;white&quot;&gt;

&lt;center&gt;

&lt;h1&gt;413 Request Entity Too Large&lt;/h1&gt;

&lt;/center&gt;

&lt;hr&gt;

&lt;center&gt;nginx&lt;/center&gt;

&lt;/body&gt;

&lt;/html&gt;" />

If any of mandatory parameter is **missing** or the value of any parameters is **incorrect** format, the application shall increment a statistic value named "ExtAPI Recv SACF Bad IBM API Response".

Then the application shall return error response message back to the requester, with resultCode "System error (50000)". The response body as described in section [5.5.1 Unsuccessful response message](#_5.5.1_Unsuccessful_response)

If the SACF return IBM API valid response message, the application shall **Search ErrorPartner** to get resultCode and developerMessage for return response message back to requester.

The application shall perform process as described in section [5.3.2 Search Error Partner Function](#_5.3.2_Search_Error)

#### [ExtAPI1-ExtAPI-05-009-1]

After Search ErrorPartner, the application shall increment a statistic condition as below:

1. The application shall increment a statistic value named "ExtAPI Recv SACF IBM API Response" for the reason is "Search ErrorPartner success and resultCode in $response is 20000"
2. The application shall increment a statistic value named "ExtAPI Recv SACF IBM API Error" for the reason are "Search ErrorPartner success and resultCode in $response is not 20000" or "Search ErrorPartner error".

## 5.5 External API Management Response Message Handling Function

#### [ExtAPI1-ExtAPI-05-001-1]

The application shall set value of "ecode" following first 3 digits of "resultCode".

**Example:**

resultCode is "20000", the application shall set ecode is "200"  
resultCode is "50000", the application shall set ecode is "500"

### 5.5.1 Unsuccessful response message

#### [ExtAPI1-ExtAPI-05-002-1]

The unsuccessful response body as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | | **M/O** | **SV/MV** | **Description / Example** |
| Header | |  |  |  |
|  | Content-Type | O | SV | The content type of the response  **Set:** application/json |
| Body | |  |  |  |
|  | resultCode | M | SV | Indicates a specified request is successfully or fails. |
|  | developerMessage | M | SV | Result description |
|  | moreInfo | O | SV | More detailed information.  Get value from EC02 configuration named **"ErrorCode-$resultCode"** for example; "ErrorCode-50000", "ErrorCode-40401". |
|  | userMessage | O | SV | Information for user.  Get value from EC02 configuration named **"ErrorCode-$resultCode"** for example; "ErrorCode-50000", "ErrorCode-40401". |
|  | errorNode | O | SV | Indicates a specified node name that error. |
|  | data | O | MV | Response data.  Parameter named there are follow the $response in E01 ErrorPartner. |

An "**errorNode**" condition as described below:

The application shall check errorNode's flag from EC02 configuration named "ErrorNode-Enable"

1. If a value is **"True**", the application shall construct parameter named "errorNode" condition as follow:
   1. In case of error response from the ServMng (ecode != 200 or resultCode != 20000)

The application shall get value "node" from the last index of "errorMessageStack". But if there is no "errorMessageStack", the application shall set value as "ExtAPI".

* 1. Otherwise, the application shall set value as "ExtAPI".

1. If a value is **"False"**, the application shall not return parameter named "errorNode" back to the requester.

**Example:**

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot; : &quot;40100&quot;,

&quot;developerMessage&quot; : &quot;Access is denied due to invalid credentials&quot;,

&quot;moreInfo&quot; : &quot;http://extapi.ais.error/40100&quot;,

&quot;userMessage&quot; : &quot;Access is denied due to invalid credentials&quot;,

&quot;errorNode&quot; : &quot;ExtAPI&quot;

}" />

The application shall increment a statistic value named "ExtAPI Returned IBM API Error".

The application will perform no further processing.

### 5.5.2 Successful response message

#### [ExtAPI1-ExtAPI-05-003-1]

The successful response body as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | | **M/O** | **SV/MV** | **Description / Example** |
| Header | |  |  |  |
|  | Content-Type | O | SV | The content type of the response  **Set:** application/json |
| Body | |  |  |  |
|  | resultCode | M | SV | Indicates a specified request is successfully or fails. |
|  | developerMessage | M | SV | Result description |
|  | moreInfo | O | SV | More detailed information.  Get value from EC02 configuration named **"ErrorCode-$resultCode"** for example; "ErrorCode-50000", "ErrorCode-40401". |
|  | userMessage | O | SV | Information for user.  Get value from EC02 configuration named **"ErrorCode-$resultCode"** for example; "ErrorCode-50000", "ErrorCode-40401". |
|  | data | O | MV | Response data.  Parameter named there are follow the $response in E01 ErrorPartner. |

##### **Example:** PersonalityInsights API profile

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot;: &quot;20000&quot;,

&quot;developerMessage&quot;: &quot;Success&quot;,

&quot;moreInfo&quot; : &quot;http://extapi.ais.error/20000&quot;,

&quot;userMessage&quot; : &quot;Success&quot;,

&quot;data&quot;: {

&quot;word\_count&quot;: 103,

&quot;word\_count\_message&quot;: &quot;There were 103 words in the input. We need a minimum of 600, preferably 1,200 or more, to compute statistically significant estimates&quot;,

&quot;processed\_language&quot;: &quot;en&quot;,

&quot;personality&quot;: [{

&quot;trait\_id&quot;: &quot;big5\_openness&quot;,

&quot;name&quot;: &quot;Openness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9419901585070444,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_adventurousness&quot;,

&quot;name&quot;: &quot;Adventurousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7039184189857008

}, {

&quot;trait\_id&quot;: &quot;facet\_artistic\_interests&quot;,

&quot;name&quot;: &quot;Artistic interests&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.25012526123098966

}, {

&quot;trait\_id&quot;: &quot;facet\_emotionality&quot;,

&quot;name&quot;: &quot;Emotionality&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.06114166098801965

}, {

&quot;trait\_id&quot;: &quot;facet\_imagination&quot;,

&quot;name&quot;: &quot;Imagination&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.5842673131490224

}, {

&quot;trait\_id&quot;: &quot;facet\_intellect&quot;,

&quot;name&quot;: &quot;Intellect&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9352859036042205

}, {

&quot;trait\_id&quot;: &quot;facet\_liberalism&quot;,

&quot;name&quot;: &quot;Authority-challenging&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9911495661857173

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_conscientiousness&quot;,

&quot;name&quot;: &quot;Conscientiousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.37171487595491015,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_achievement\_striving&quot;,

&quot;name&quot;: &quot;Achievement striving&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7118571645159613

}, {

&quot;trait\_id&quot;: &quot;facet\_cautiousness&quot;,

&quot;name&quot;: &quot;Cautiousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.800612567487107

}, {

&quot;trait\_id&quot;: &quot;facet\_dutifulness&quot;,

&quot;name&quot;: &quot;Dutifulness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.39992000108860976

}, {

&quot;trait\_id&quot;: &quot;facet\_orderliness&quot;,

&quot;name&quot;: &quot;Orderliness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.16614259488044453

}, {

&quot;trait\_id&quot;: &quot;facet\_self\_discipline&quot;,

&quot;name&quot;: &quot;Self-discipline&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.6799427224453404

}, {

&quot;trait\_id&quot;: &quot;facet\_self\_efficacy&quot;,

&quot;name&quot;: &quot;Self-efficacy&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7488003647788268

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_extraversion&quot;,

&quot;name&quot;: &quot;Extraversion&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.769825199283471,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_activity\_level&quot;,

&quot;name&quot;: &quot;Activity level&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.8186842409101049

}, {

&quot;trait\_id&quot;: &quot;facet\_assertiveness&quot;,

&quot;name&quot;: &quot;Assertiveness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9368803673458745

}, {

&quot;trait\_id&quot;: &quot;facet\_cheerfulness&quot;,

&quot;name&quot;: &quot;Cheerfulness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.08568528494419031

}, {

&quot;trait\_id&quot;: &quot;facet\_excitement\_seeking&quot;,

&quot;name&quot;: &quot;Excitement-seeking&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.41737409880713605

}, {

&quot;trait\_id&quot;: &quot;facet\_friendliness&quot;,

&quot;name&quot;: &quot;Outgoing&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.11903701590788546

}, {

&quot;trait\_id&quot;: &quot;facet\_gregariousness&quot;,

&quot;name&quot;: &quot;Gregariousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.28885133262983254

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_agreeableness&quot;,

&quot;name&quot;: &quot;Agreeableness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.059676107963974434,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_altruism&quot;,

&quot;name&quot;: &quot;Altruism&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.15719464949941875

}, {

&quot;trait\_id&quot;: &quot;facet\_cooperation&quot;,

&quot;name&quot;: &quot;Cooperation&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.5311829109768751

}, {

&quot;trait\_id&quot;: &quot;facet\_modesty&quot;,

&quot;name&quot;: &quot;Modesty&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.07090707046748224

}, {

&quot;trait\_id&quot;: &quot;facet\_morality&quot;,

&quot;name&quot;: &quot;Uncompromising&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.12384491263638048

}, {

&quot;trait\_id&quot;: &quot;facet\_sympathy&quot;,

&quot;name&quot;: &quot;Sympathy&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.27095816026778674

}, {

&quot;trait\_id&quot;: &quot;facet\_trust&quot;,

&quot;name&quot;: &quot;Trust&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.9247631005981167

}]

}, {

&quot;trait\_id&quot;: &quot;big5\_neuroticism&quot;,

&quot;name&quot;: &quot;Emotional range&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.6755651399913001,

&quot;children&quot;: [{

&quot;trait\_id&quot;: &quot;facet\_anger&quot;,

&quot;name&quot;: &quot;Fiery&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.3391256730478402

}, {

&quot;trait\_id&quot;: &quot;facet\_anxiety&quot;,

&quot;name&quot;: &quot;Prone to worry&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.5666725848376579

}, {

&quot;trait\_id&quot;: &quot;facet\_depression&quot;,

&quot;name&quot;: &quot;Melancholy&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.7616169291993752

}, {

&quot;trait\_id&quot;: &quot;facet\_immoderation&quot;,

&quot;name&quot;: &quot;Immoderation&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.006761221762454028

}, {

&quot;trait\_id&quot;: &quot;facet\_self\_consciousness&quot;,

&quot;name&quot;: &quot;Self-consciousness&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.6409526346582101

}, {

&quot;trait\_id&quot;: &quot;facet\_vulnerability&quot;,

&quot;name&quot;: &quot;Susceptible to stress&quot;,

&quot;category&quot;: &quot;personality&quot;,

&quot;percentile&quot;: 0.369675866131936

}]

}],

&quot;needs&quot;: [{

&quot;trait\_id&quot;: &quot;need\_challenge&quot;,

&quot;name&quot;: &quot;Challenge&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.35446753801682473

}, {

&quot;trait\_id&quot;: &quot;need\_closeness&quot;,

&quot;name&quot;: &quot;Closeness&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.2619340172144685

}, {

&quot;trait\_id&quot;: &quot;need\_curiosity&quot;,

&quot;name&quot;: &quot;Curiosity&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.7008245099261644

}, {

&quot;trait\_id&quot;: &quot;need\_excitement&quot;,

&quot;name&quot;: &quot;Excitement&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.279999893071971

}, {

&quot;trait\_id&quot;: &quot;need\_harmony&quot;,

&quot;name&quot;: &quot;Harmony&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.078902747687144

}, {

&quot;trait\_id&quot;: &quot;need\_ideal&quot;,

&quot;name&quot;: &quot;Ideal&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.17118039933618528

}, {

&quot;trait\_id&quot;: &quot;need\_liberty&quot;,

&quot;name&quot;: &quot;Liberty&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.3221545703405543

}, {

&quot;trait\_id&quot;: &quot;need\_love&quot;,

&quot;name&quot;: &quot;Love&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.5842129974071815

}, {

&quot;trait\_id&quot;: &quot;need\_practicality&quot;,

&quot;name&quot;: &quot;Practicality&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.7917636644483492

}, {

&quot;trait\_id&quot;: &quot;need\_self\_expression&quot;,

&quot;name&quot;: &quot;Self-expression&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.4390342914781338

}, {

&quot;trait\_id&quot;: &quot;need\_stability&quot;,

&quot;name&quot;: &quot;Stability&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.5012875168727058

}, {

&quot;trait\_id&quot;: &quot;need\_structure&quot;,

&quot;name&quot;: &quot;Structure&quot;,

&quot;category&quot;: &quot;needs&quot;,

&quot;percentile&quot;: 0.25900522208298893

}],

&quot;values&quot;: [{

&quot;trait\_id&quot;: &quot;value\_conservation&quot;,

&quot;name&quot;: &quot;Conservation&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.025139288861989018

}, {

&quot;trait\_id&quot;: &quot;value\_openness\_to\_change&quot;,

&quot;name&quot;: &quot;Openness to change&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.5327503661220926

}, {

&quot;trait\_id&quot;: &quot;value\_hedonism&quot;,

&quot;name&quot;: &quot;Hedonism&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.12470460303026076

}, {

&quot;trait\_id&quot;: &quot;value\_self\_enhancement&quot;,

&quot;name&quot;: &quot;Self-enhancement&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.25380038725178367

}, {

&quot;trait\_id&quot;: &quot;value\_self\_transcendence&quot;,

&quot;name&quot;: &quot;Self-transcendence&quot;,

&quot;category&quot;: &quot;values&quot;,

&quot;percentile&quot;: 0.2861053071367743

}],

&quot;behavior&quot;: [{

&quot;trait\_id&quot;: &quot;behavior\_sunday&quot;,

&quot;name&quot;: &quot;Sunday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_monday&quot;,

&quot;name&quot;: &quot;Monday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_tuesday&quot;,

&quot;name&quot;: &quot;Tuesday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_wednesday&quot;,

&quot;name&quot;: &quot;Wednesday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_thursday&quot;,

&quot;name&quot;: &quot;Thursday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 1.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_friday&quot;,

&quot;name&quot;: &quot;Friday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_saturday&quot;,

&quot;name&quot;: &quot;Saturday&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0000&quot;,

&quot;name&quot;: &quot;0:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 1.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0100&quot;,

&quot;name&quot;: &quot;1:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0200&quot;,

&quot;name&quot;: &quot;2:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0300&quot;,

&quot;name&quot;: &quot;3:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0400&quot;,

&quot;name&quot;: &quot;4:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0500&quot;,

&quot;name&quot;: &quot;5:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0600&quot;,

&quot;name&quot;: &quot;6:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0700&quot;,

&quot;name&quot;: &quot;7:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0800&quot;,

&quot;name&quot;: &quot;8:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_0900&quot;,

&quot;name&quot;: &quot;9:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1000&quot;,

&quot;name&quot;: &quot;10:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1100&quot;,

&quot;name&quot;: &quot;11:00 am&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1200&quot;,

&quot;name&quot;: &quot;12:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1300&quot;,

&quot;name&quot;: &quot;1:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1400&quot;,

&quot;name&quot;: &quot;2:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1500&quot;,

&quot;name&quot;: &quot;3:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1600&quot;,

&quot;name&quot;: &quot;4:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1700&quot;,

&quot;name&quot;: &quot;5:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1800&quot;,

&quot;name&quot;: &quot;6:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_1900&quot;,

&quot;name&quot;: &quot;7:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_2000&quot;,

&quot;name&quot;: &quot;8:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_2100&quot;,

&quot;name&quot;: &quot;9:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_2200&quot;,

&quot;name&quot;: &quot;10:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}, {

&quot;trait\_id&quot;: &quot;behavior\_2300&quot;,

&quot;name&quot;: &quot;11:00 pm&quot;,

&quot;category&quot;: &quot;behavior&quot;,

&quot;percentage&quot;: 0.0

}],

&quot;warnings&quot;: [{

&quot;warning\_id&quot;: &quot;WORD\_COUNT\_MESSAGE&quot;,

&quot;message&quot;: &quot;There were 103 words in the input. We need a minimum of 600, preferably 1,200 or more, to compute statistically significant estimates&quot;

}]

}

}"/>

##### **Example:** VisualRecognition API classify

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot;: &quot;20000&quot;,

&quot;developerMessage&quot;: &quot;Success&quot;,

&quot;moreInfo&quot; : &quot;http://extapi.ais.error/20000&quot;,

&quot;userMessage&quot; : &quot;Success&quot;,

&quot;data&quot;: {

&quot;custom\_classes&quot;: 0,

&quot;images&quot;: [{

&quot;classifiers&quot;: [{

&quot;classes&quot;: [{

&quot;class&quot;: &quot;person&quot;,

&quot;score&quot;: 0.658

},

{

&quot;class&quot;: &quot;soul patch facial hair&quot;,

&quot;score&quot;: 0.506

},

{

&quot;class&quot;: &quot;people&quot;,

&quot;score&quot;: 0.502,

&quot;type\_hierarchy&quot;: &quot;/person/people&quot;

},

{

&quot;class&quot;: &quot;pompadour hairstyle&quot;,

&quot;score&quot;: 0.5,

&quot;type\_hierarchy&quot;: &quot;/person/pompadour hairstyle&quot;

},

{

&quot;class&quot;: &quot;ultramarine color&quot;,

&quot;score&quot;: 0.963

}

],

&quot;classifier\_id&quot;: &quot;default&quot;,

&quot;name&quot;: &quot;default&quot;

}],

&quot;resolved\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&quot;,

&quot;source\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&quot;

}],

&quot;images\_processed&quot;: 1

}

}"/>

##### **Example:** VisualRecognition API detect\_faces

<ERDHeader>

<Header name="Content-Type" value="application/json" />

</ERDHeader>

<ERDData value="{

&quot;resultCode&quot;: &quot;20000&quot;,

&quot;developerMessage&quot;: &quot;Success&quot;,

&quot;moreInfo&quot; : &quot;http://extapi.ais.error/20000&quot;,

&quot;userMessage&quot; : &quot;Success&quot;,

&quot;data&quot;: {

&quot;images&quot;: [{

&quot;faces&quot;: [{

&quot;age&quot;: {

&quot;max&quot;: 24,

&quot;min&quot;: 18,

&quot;score&quot;: 0.502411

},

&quot;face\_location&quot;: {

&quot;height&quot;: 218,

&quot;left&quot;: 110,

&quot;top&quot;: 89,

&quot;width&quot;: 182

},

&quot;gender&quot;: {

&quot;gender&quot;: &quot;MALE&quot;,

&quot;score&quot;: 0.993307

},

&quot;identity&quot;: {

&quot;name&quot;: &quot;Nadech Kugimiya&quot;,

&quot;score&quot;: 0.817574

}

}],

&quot;resolved\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&quot;,

&quot;source\_url&quot;: &quot;https://f.ptcdn.info/053/040/000/o2g3s96a4szm8m4aKep-o.jpg&quot;

}],

&quot;images\_processed&quot;: 1

}

}"/>

The application shall increment a statistic value named "ExtAPI Returned IBM API Success".

The application will perform no further processing.

## 5.6 External API Management Unexpected Delay Event Handling

#### [ExtAPI1-ExtAPI-06-001-1]

Upon received of delay response message after receive Timeout (ret = 4) from equinox while waiting for any response, the application shall ignore an incoming message.

The application shall increment a statistic value named "ExtAPI Recv Unexpected Delay Message".

The application will perform no further processing.

# 6. Stat Description

|  |  |  |
| --- | --- | --- |
| **No.** | **Statistic Name** | **Statistic Description** |
| 1 | ExtAPI Received Unknown Request | The statistic will be increment when the External API Management receive unknown request message. |
| 2 | ExtAPI Received IBM API Bad Request | The statistic will be increment when the External API Management receive IBM API request message and any of its mandatory parameter is missing or incorrect format. |
| 3 | ExtAPI Received IBM API Request | The statistic will be increment when the External API Management receive IBM API request message. |
| 4 | ExtAPI Returned Unknown Error | The statistic will be increment when the External API Management return unknown error response message. |
| 5 | ExtAPI Returned IBM API Error | The statistic will be increment when the External API Management return IBM API error response message. |
| 6 | ExtAPI Returned IBM API Success | The statistic will be increment when the External API Management return IBM API success response message. |
| 7 | ExtAPI Sent ServMng GetServiceCredential Request | The statistic will be increment when the External API Management send GetServiceCredential request message to the Service Management. |
| 8 | ExtAPI Recv ServMng GetServiceCredential Error | The statistic will be increment when the External API Management receive GetServiceCredential request error/error response message from the Service Management. |
| 9 | ExtAPI Recv ServMng GetServiceCredential Reject/Abort | The statistic will be increment when the External API Management receive GetServiceCredential request reject/abort from the Service Management. |
| 10 | ExtAPI Recv ServMng GetServiceCredential Timeout | The statistic will be increment when the External API Management does not receive GetServiceCredential response message from the Service Management. |
| 11 | ExtAPI Recv ServMng Bad GetServiceCredential Response | The statistic will be increment when the External API Management receive GetServiceCredential response message from the Service Management and any of its mandatory parameter is missing or incorrect format. |
| 12 | ExtAPI Recv ServMng GetServiceCredential Response | The statistic will be increment when the External API Management receive GetServiceCredential success response message from the Service Management. |
| 13 | ExtAPI Sent E01 Search DNSPartner Request | The statistic will be increment when the External API Management send Search DNSPartner request message to the E01. |
| 14 | ExtAPI Recv E01 Search DNSPartner Error | The statistic will be increment when the External API Management receive Search DNSPartner request error/error response message from the E01. |
| 15 | ExtAPI Recv E01 Search DNSPartner Reject/Abort | The statistic will be increment when the External API Management receive Search DNSPartne request reject/abort from the Service Management. |
| 16 | ExtAPI Recv E01 Search DNSPartner Timeout | The statistic will be increment when the External API Management does not receive Search DNSPartner response message from the E01. |
| 17 | ExtAPI Recv E01 Bad Search DNSPartner Response | The statistic will be increment when the External API Management receive Search DNSPartner response message from the E01 and any of its mandatory parameter is missing or incorrect format. |
| 18 | ExtAPI Recv E01 Search DNSPartner Response | The statistic will be increment when the External API Management receive Search DNSPartner success response message from the E01. |
| 19 | ExtAPI Sent E01 Search ErrorPartner Request | The statistic will be increment when the External API Management send Search ErrorPartner request message to the E01. |
| 20 | ExtAPI Recv E01 Search ErrorPartner Error | The statistic will be increment when the External API Management receive Search ErrorPartner request error/error response message from the E01. |
| 21 | ExtAPI Recv E01 Search ErrorPartner Reject/Abort | The statistic will be increment when the External API Management receive Search ErrorPartner request reject/abort from the Service Management. |
| 22 | ExtAPI Recv E01 Search ErrorPartner Timeout | The statistic will be increment when the External API Management does not receive Search ErrorPartner response message from the E01. |
| 23 | ExtAPI Recv E01 Bad Search ErrorPartner Response | The statistic will be increment when the External API Management receive Search ErrorPartner response message from the E01 and any of its mandatory parameter is missing or incorrect format. |
| 24 | ExtAPI Recv E01 Search ErrorPartner Response | The statistic will be increment when the External API Management receive Search ErrorPartner success response message from the E01. |
| 25 | ExtAPI Sent SACF IBM API Request | The statistic will be increment when the External API Management send IBM API request message to the SACF. |
| 26 | ExtAPI Recv SACF IBM API Error | The statistic will be increment when the External API Management receive IBM API request error/error response message from the SACF. |
| 27 | ExtAPI Recv SACF IBM API Reject/Abort | The statistic will be increment when the External API Management receive IBM API request reject/abort from the SACF. |
| 28 | ExtAPI Recv SACF IBM API Timeout | The statistic will be increment when the External API Management does not receive IBM API response message from the SACF. |
| 29 | ExtAPI Recv SACF IBM API Response | The statistic will be increment when the External API Management receive IBM API success response message from the SACF. |
| 30 | ExtAPI Recv SACF Bad IBM API Response | The statistic will be increment when the External API Management receive IBM API response message from the SACF and any of its mandatory parameter is missing or incorrect format. |
| 31 | ExtAPI Recv Unexpected Delay Message | The statistic will be increment when the External API Management receive unexpected delay response message from the backend node. |

# 7. Alarm Description

|  |  |  |
| --- | --- | --- |
| **No.** | **Alarm Name** | **Alarm Description** |
| 1 | ExtAPI Received Unknown Request | The alarm will be increment when the External API Management receive unknown message. |
| 2 | ExtAPI Received IBM API Bad Request | The alarm will be increment when the External API Management receive IBM API request message and any of its mandatory parameter is missing or incorrect format. |
| 3 | ExtAPI Recv ServMng GetServiceCredential Error | The alarm will be increment when the External API Management receive GetServiceCredential request error/error response message from the Service Management. |
| 4 | ExtAPI Recv ServMng GetServiceCredential Reject/Abort | The alarm will be increment when the External API Management receive GetServiceCredential request reject/abort from the Service Management. |
| 5 | ExtAPI Recv ServMng GetServiceCredential Timeout | The alarm will be increment when the External API Management does not receive GetServiceCredential response message from the Service Management. |
| 6 | ExtAPI Recv ServMng Bad GetServiceCredential Response | The alarm will be increment when the External API Management receive GetServiceCredential response message from the Service Management and any of its mandatory parameter is missing or incorrect format. |
| 7 | ExtAPI Recv E01 Search DNSPartner Error | The alarm will be increment when the External API Management receive Search DNSPartner request error/error response message from the E01. |
| 8 | ExtAPI Recv E01 Search DNSPartner Reject/Abort | The alarm will be increment when the External API Management receive Search DNSPartne request reject/abort from the Service Management. |
| 9 | ExtAPI Recv E01 Search DNSPartner Timeout | The alarm will be increment when the External API Management does not receive Search DNSPartner response message from the E01. |
| 10 | ExtAPI Recv E01 Bad Search DNSPartner Response | The alarm will be increment when the External API Management receive Search DNSPartner response message from the E01 and any of its mandatory parameter is missing or incorrect format. |
| 11 | ExtAPI Recv E01 Search ErrorPartner Error | The alarm will be increment when the External API Management receive Search ErrorPartner request error/error response message from the E01. |
| 12 | ExtAPI Recv E01 Search ErrorPartner Reject/Abort | The alarm will be increment when the External API Management receive Search ErrorPartner request reject/abort from the Service Management. |
| 13 | ExtAPI Recv E01 Search ErrorPartner Timeout | The alarm will be increment when the External API Management does not receive Search ErrorPartner response message from the E01. |
| 14 | ExtAPI Recv E01 Bad Search ErrorPartner Response | The alarm will be increment when the External API Management receive Search ErrorPartner response message from the E01 and any of its mandatory parameter is missing or incorrect format. |
| 15 | ExtAPI Recv SACF IBM API Error | The alarm will be increment when the External API Management receive IBM API request error/error response message from the SACF. |
| 16 | ExtAPI Recv SACF IBM API Reject/Abort | The alarm will be increment when the External API Management receive IBM API request reject/abort from the SACF. |
| 17 | ExtAPI Recv SACF IBM API Timeout | The alarm will be increment when the External API Management does not receive IBM API response message from the SACF. |
| 18 | ExtAPI Recv SACF Bad IBM API Response | The alarm will be increment when the External API Management receive IBM API response message from the SACF and any of its mandatory parameter is missing or incorrect format. |

# 8. Log Description

## 8.1 Summary Log

### Format

@SystemTimeStamp|@Hostname|@AppName|@Service| @ReqTimestamp|@Session|@InitInvoke|@CmdName|@Identity|@ResultCode|@ResultDesc|[@RequestNodeName;@RequestNodeCmd(@numberReq);[@RequestNodeResultCode;@RequestNodeResultDesc(@numberReq)],@DestNodeName;@DestNodeCmd(numberReq);[@DestNodeResultCode;@DestNodeResultDesc(numberRes)]]|@ResTimestamp|@UsageTime

### Description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Parameter | | SV/MV | Value | Example |
| 1 | SystemTimeStamp | | SV | In Configuration E06 : ${TIMESTAMP@%Y%m%d %H:%M:%S } | 20160625 13:06:33 |
| 2 | Hostname | | SV | In Configuration E06 : ${hostname} | DBOSMTUA201G |
| 3 | AppName | | SV | In Configuration E06 : ${appname} | ExtAPI |
| 4 | Service | | SV | In Configuration E06 : ${service} | 0 |
| In Configuration E06 : ${value} | | | | | |
| 5 | ReqTimestamp | | SV | Request time  (YYYYMMDD HH:MM:SS.MS) | 20160625 13:06:33.424 |
| 6 | Session | | SV | This field contain global session for all activities in flow | 66932080614 |
| 7 | InitInvoke | | SV | This field contain invoke of initial message, for multiple initial invoke use comma (,) for seperator. | 1 |
| 8 | CmdName | | SV | **Format:** CmdName:ServiceCategory:APIName | IBM-API:PersonalityInsights:profile |
|  | CmdName | SV | Name of command or scenario   * IBM-API | IBM-API |
|  | ServiceCategory | SV | Get value "ServiceCategory" in URL from first request message. | PersonalityInsights |
|  | APIName | SV | Get value "APIName" in URL from first request message. | profile |
| 9 | Identity | | SV | Get value "x-command-id" from first request message. | myAis-1505981226052-0001 |
| 10 | ResultCode | | SV | Global Result. If the field hasn’t value do set null into value. | 20000 |
| 11 | ResultDesc | | SV | Description of Global Result. If the field hasn’t value does set null into value. | Success |
| 12 | RequestNodeName | | SV | Name of destination node | SACF |
| 13 | RequestNodeCmd | | SV | Name of command from destination node   * IBM-API | IBM-API |
| 14 | RequestResultCode | | SV | Result code of command from destination node | null |
| 15 | RequestResultDesc | | SV | Result description of command from destination node | Success |
| 16 | numberReq | | SV | Number of request time | 1 |
| 17 | DestNodeName | | MV | Destination backend node name   * ServMng * E01 * SACF | ServMng |
| 18 | DestNodeCmd | | MV | Destination backend node command   * GetServiceCredential * SearchDNSPartner * SearchErrorPartner * IBM-API-Service | GetServiceCredential |
| 19 | DestNodeResultCode | | MV | Result from destination backend node consider by protocol See on definition destination node format table | 20000 |
| 20 | DestNodeResultDesc | | MV | Mapping description from destination backend node result See on definition destination node format table | Success |
| 21 | numberRes | | MV | Number of response time | 1 |
| 21 | ResTimestamp | | MV | Response time  (YYYYMMDD HH:MM:SS.MS) | 20160625 13:06:39.581 |
| 22 | UsageTime | | MV | Used time since receive to response the requester (msec.) | 6161 |

### Note

Summary log concept

**RequestNode concept:**

|  |  |  |  |
| --- | --- | --- | --- |
| Case | RequestResultCode | RequestResultDesc | Example |
| Success | Fix "null" | Fix "Success" | [null; Success(1)] |
| Fail | Fix "null" | error description string | [null; Missing = $parameter(1)] |
| Unknown | Fix "null" | error description string | [null; Unknown URL(1)] |

**ResponseNode concept:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Protocol | Command | Equinox ret | Case | Subcase | DestNodeResultCode | DestNodeResultDesc | Example |
| HTTP | GetServiceCredential | ret !=0 | - | - | set "ret="+<ret> from response | ret description string | [ret=4; Timeout(1)] |
| ret = 0 | ecode != 200 | - | set "ecode="+<ecode> from response | set "body.resultCode="+<resultCode> "body.developerMessage="+<developerMessage> | [ecode=500; body.resultCode=50000 body.developerMessage=System error (1)] |
| ecode = 200 | Result in message success | get "resultCode" from message | get "developerMessage" from message | [20000; Success(1)] |
| Result in message fail | get "resultCode" from message | get "developerMessage" from message | [50000; System error(1)] |
| Bad message or other error | Fix "null" | error description string | [null; Missing = $parameter (1)] |
| IBM API | ret !=0 | - | - | set "ret="+<ret> from response | ret description string | [ret=4; Timeout(1)] |
| ret = 0 | E01 ErrorPartner success | - | Fix "null" | Get value "$condition" from E01 ErrorPartner | [null; personality != ""(1)] |
| E01 ErrorPartner fail | - | Fix "null" | Fix "Fail" | [null; Fail(1)] |
| Fail | Bad message | Fix "null" | error description string | [null; Missing = $parameter (1)] |
| E01 | * SearchDNSPartner * SearchErrorPartner | ret != 0 | - | - | set "ret="+<ret> from response | ret description string | [ret=2; Reject(1)] |
| ret = 0 | Success | - | set "resultcode="+<resultcode> from response | Fix "Success" | [resultcode=0; Success(1)] |
| Fail | - | set "resultcode="+<resultcode> from response | Get "description" from response | [resultcode=32; NO\_SUCH\_OBJECT(1)] |
| Fail | Bad message or other error | Fix "null" | error description string | [null; Missing = $parameter(1)] |
| Fail | AuthenType not match Credential | Fix "null" | error description string | [null; authenType not match Credential(1)]s |
| Fail | subPath in URL not available | Fix "null" | error description string | [null; URL subPath not available(1)] |
| Fail | out of condition in E01 ErrorPartner | Fix "null" | error description string | [null; out of condition in E01(1)] |
| Fail | invalid $response format in E01 ErrorPartner | Fix "null" | error description string | [null; invalid response template format(1)] |

**Note:** error description string = other string that can indicate error meaning

### Example

#### Success case IBM API

20170825 15:08:33|ExtAPI|ExtAPI|0|20170825 15:08:33.424|1:ExtAPI.ES05.SACF.0|1|IBM-API:PersonalityInsights:profile|myAis-1505981226052-0001|20000|Success|[SACF; IBM-API(1); [null; Success(1)], ServMng; GetServiceCredential(1); [20000; Success(1)], E01; SearchDNSPartner(1); [resultcode=0; Success(1)], SACF; IBM-API-Service(1); [null; personality != ""(1)], E01; SearchErrorPartner(1); [resultcode=0; Success(1)]]| 20170825 15:08:33.430|6

#### Error case IBM API missing parameter

20170825 15:08:33|ExtAPI|ExtAPI|0|20170825 15:08:33.424|1:ExtAPI.ES05.SACF.0|1|IBM-API:PersonalityInsights:profile|myAis-1505981226052-0001|40300|Missing or invalid parameter|[SACF; IBM-API(1); [null; Missing = x-app(1)]]| 20170825 15:08:33.430|6

#### Error case Unknown message

20170825 15:08:33|ExtAPI|ExtAPI|0|20170825 15:08:33.424|1:ExtAPI.ES05.SACF.0|1|Unknown||40400|Unknown URL|[SACF; Unknown(1); [null; Unknown URL(1)]]| 20170825 15:08:33.430|6

## 8.2 Detail Log

### Format

{

"ApplicationName.Details": {

"Session": "@Session",

"InitInvoke": ["@InitInvoke\_1", "@InitInvoke\_2"],

"Scenario": "@CommandName",

"Identity": "@Identity",

"InputTimeStamp": "@InputTimeStamp",

"Input": [{

"Invoke": "@InitInvoke",

"Event": "@Event",

"Type": "@{REQ/RES}",

"RawData": "{@RawData}",

"Data": {

@Data

},

"ResTime": "@ResTime"

}],

"OutputTimeStamp": "@OutPutTimeStamp",

"Output": [{

"Invoke": "@InitInvoke",

"Event": "@Event",

"Type": "@{REQ/RES}",

"RawData": "{@RawData}",

"Data": {

@Data

}

}],

"CurrentState": "@CurrentState",

"NextState": "@NextState",

"ProcessingTime": "@ProcessingTime"

}

}

### Description

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No. | Field Name | | | Flag | Description | Possible Value |
| 1 | AppName | | | M | This field contain public name of the application | ExtAPI.Details |
| 2 | Session | | | M | This field contain global session for all activities in flow | 66932080614 |
| 3 | InitInvoke | | | M | This field contain invoke of initial message. There might be multiple values. | 66932080614:38174103:3080208264 |
| 4 | Scenario | | | O | Name of Business depends on  **Format:** CmdName:ServiceCategory:APIName | IBM-API:PersonalityInsights:profile |
| 4.1.1 |  | CommandName | | O | Name of command or scenario   * IBM-API | IBM-API |
| 4.1.2 |  | ServiceCategory | | O | Get value "ServiceCategory" in URL from first request message. | PersonalityInsights |
| 4.1.3 |  | APIName | | O | Get value "APIName" in URL from first request message. | profile |
| 5 | Identity | | | O | Get value "x-command-id" from first request message. | myAis-1505981226052-0001 |
| 6 | InputTimeStamp | | | M | Timestamp of incoming (YYMMDD HH:MM:SS.MS) | 20160625 15:07:51.975 |
| 7 | Input | | | O | If the field is not in use do not appear. |  |
| 7.1 |  | Invoke | | OM | The invoke of the message | 66932080614:38174103:3080208264 |
| 7.2 |  | Event | | OM | Short term for describe the message | SACF.IBM-API |
| 7.2.1 |  |  | OriginalNode |  | The original entry resource that the message has been through. | SACF |
| 7.2.2 |  |  | CmdName |  | The public name of the message | IBM-API |
| 7.3 |  | Type | | OM | Type of the message   * REQ * RES | REQ |
| 7.4 |  | RawData | | O | HTML Special Character Converted of RawData | \n\t\t<Session-Id value=\"0:697539026:scp103;1464001233;362;2;932080614\" />\n\t\t<Origin-Host value=\"OCS1MI201A-OCF1\" />\n\t\t<Origin-Realm value=\"sand.ais.co.th\" />\n\t\t<Destination-Host value=\"toro\" />\n\t\t<Destination-Realm value=\"toro.ais.co.th\" />\n\t\t<Auth-Application-Id value=\"4\" />\n\t\t<Service-Context-Id value=\"manager@huawei.com\" />\n\t\t<CC-Request-Type value=\"1\" />\n\t\t<CC-Request-Number value=\"0\" />\n\t\t<Event-Timestamp value=\"3674880069\" />\n\t\t<Subscription-Id>\n\t\t\t<Subscription-Id-Type value=\"0\" />\n\t\t\t<Subscription-Id-Data value=\"0x393332303830363134\" />\n\t\t</Subscription-Id>\n\t\t<Service-Identifier value=\"3\" />\n\t\t<Route-Record value=\"scp103\" />\n\t\t<Service-Information>\n\t\t\t<IN-Information>\n\t\t\t\t<Calling-Party-Address value=\"0x393332303830363134\" />\n\t\t\t\t<Called-Party-Address value=\"0x3420\" />\n\t\t\t\t<Calling-Vlr-Number value=\"0x3636393233303131313231\" />\n\t\t\t\t<Calling-CellID-Or-SAI value=\"0x353230303331303031353030363636\" />\n\t\t\t\t<Calling-LAI value=\"0x36363932333130303135\" />\n\t\t\t\t<UE-IMSI value=\"520032000001451\" />\n\t\t\t\t<Call-Reference-Number value=\"0x242912f013\" />\n\t\t\t\t<MSC-Address value=\"0x3636393233303131313231\" />\n\t\t\t\t<Time-Zone value=\"0\" />\n\t\t\t\t<Recharge-Information>\n\t\t\t\t\t<Charge-Number value=\"0x0899689008\" />\n\t\t\t\t\t<Card-Number value=\"0x33313030323437373931383534\" />\n\t\t\t\t\t<Card-Batch value=\"0x36313030323030303039\" />\n\t\t\t\t\t<Card-Type value=\"0\" />\n\t\t\t\t\t<Card-Money value=\"300\" />\n\t\t\t\t\t<Recharge-Method value=\"2\" />\n\t\t\t\t\t<Charge-Money>\n\t\t\t\t\t\t<Money-Type value=\"0\" />\n\t\t\t\t\t\t<Money-Value value=\"100\" />\n\t\t\t\t\t</Charge-Money>\n\t\t\t\t\t<CardSpID value=\"0\" />\n\t\t\t\t\t<FraudTimes value=\"4\" />\n\t\t\t\t\t<SerialNo value=\"0x3030303136\" />\n\t\t\t\t</Recharge-Information>\n\t\t\t\t<Account-Type value=\"2000\" />\n\t\t\t\t<Access-Method value=\"1\" />\n\t\t\t\t<SSP-Time value=\"0x3230313630353233313735363139\" />\n\t\t\t\t<OperatorID value=\"0x534350\" />\n\t\t\t</IN-Information>\n\t\t</Service-Information>\n\t |
| 7.5 |  | Data | | O | Readable data in Json Format | {  "Session-Id":"GatewayService-4-13-0.LKSGG1.PS.TOT3G.NET;1317981590;57",  "Original-Host":"ais.com",  "Original-Realm":"ais.com",  "Destination-Realm":"toro.ais.co.th",  "Destination-Host":"VSCPDP",  "Auth-Application-Id":"4",  "Re-Auth-Request-Type":"2",  "User-Name":"msisdn66812345678.ais.co.th",  "Rating-Group":"2099"  } |
| 7.6 |  | ErrorDesc | | O | Incoming data error occurs. | Timeout |
| 7.7 |  | ResTime | | O | Used time since request to response  (limit for Response only) | 10 ms |
| 8 | OutputTimeStamp | | | O | Timestamp of outgoing (YYMMDD HH:MM:SS.MS) | 20160625 15:07:51.975 |
| 9 | Output | | | O | If the field is not in use do not appear. |  |
| 9.2 |  | Invoke | | OM | The invoke of the message | INQUIRYSUBSCRIBER:707014:1466842071972 |
| 9.3 |  | Event | | OM | Short term for describe the message | E01.SearchDNSPartner |
| 9.3.1 |  |  | OriginalNode |  | The original entry resource that the message has been through. | E01 |
| 9.3.2 |  |  | CmdName |  | The public name of the message | SearchDNSPartner |
| 9.4 |  | Type | | OM | Type of the message   * REQ * RES | REQ |
| 9.5 |  | RawData | | O | HTML Special Character Converted of RawData | <AVP type=\"methodVersion\"> <vals value=\"10\"/></AVP><AVP type=\"msisdnInfo\"> <vals value=\"66932080614\"/></AVP> |
| 9.6 |  | Data | | O | Readable data in Json Format | {"AVP":[{"type":"methodVersion","vals":[{"value":"10"}]},{"type":"msisdnInfo","vals":[{"value":"66932080614"}]}]} |
| 10 | CurrentState | | | O | Name of original state | IDLE |
| 11 | NextState | | | O | Name of after state | W\_SERVICE\_CREDENTIAL |
| 12 | ProcessingTime | | | M | Time since start to end transaction processing | 21 ms |

### Example

Start

20171009 15: 32: 13 | IBM | ExtAPI | 0 | {

"ExtAPI.Details": {

"Session": "2033441602:ExtAPI.ES05.SACF.0",

"InitInvoke": ["2033441602"],

"Scenario": "IBM-API:PersonalityInsights:profile",

"Identity": "myAis-1505981226052-0001",

"InputTimeStamp": "20171009 15:32:12.662",

"Input": [{

"Invoke": "2033441602",

"Event": "SACF.IBM-API",

"Type": "REQ",

"RawData": "\n\t\t<ERDHeader>\n\t\t\t<Header name=\"Host\" value=\"127.0.0.1:23600\" />\n\t\t\t<Header name=\"x-app\" value=\"appName=myAis; appVersion=1.0.1\" />\n\t\t\t<Header name=\"Content-Language\" value=\"en\" />\n\t\t\t<Header name=\"Accept-Language\" value=\"en\" />\n\t\t\t<Header name=\"Content-Length\" value=\"869\" />\n\t\t\t<Header name=\"REMOTE\_ADDR\" value=\"127.0.0.1\" />\n\t\t</ERDHeader>\n\t\t<ERDData value=\"{\n\t&quot;contentItems&quot;: [{\n\t\t&quot;content&quot;: &quot;The IBM Watson Personality Insights service provides a Representational State Transfer (REST) Application Programming Interface (API) that enables applications to derive insights from social media, enterprise data, or other digital communications. The service uses linguistic analytics to infer individuals&apos; intrinsic personality characteristics, including Big Five, Needs, and Values, from digital communications such as email, text messages, tweets, and forum posts. The service can automatically infer, from potentially noisy social media, portraits of individuals that reflect their personality characteristics. The service can report consumption preferences based on the results of its analysis, and for JSON content that is timestamped, it can report temporal behavior.&quot;,\n\t\t&quot;contenttype&quot;: &quot;text/plain&quot;,\n\t\t&quot;language&quot;: &quot;en&quot;\n\t}]\n}\" />\n\t",

"Data": {

"header": [{

"name": "Host",

"value": "127.0.0.1:23600"

}, {

"name": "x-app",

"value": "appName=myAis; appVersion=1.0.1"

}, {

"name": "Content-Language",

"value": "en"

}, {

"name": "Accept-Language",

"value": "en"

}, {

"name": "Content-Length",

"value": "869"

}, {

"name": "REMOTE\_ADDR",

"value": "127.0.0.1"

}],

"body": {

"contentItems": [{

"content": "The IBM Watson Personality Insights service provides a Representational State Transfer (REST) Application Programming Interface (API) that enables applications to derive insights from social media, enterprise data, or other digital communications. The service uses linguistic analytics to infer individuals' intrinsic personality characteristics, including Big Five, Needs, and Values, from digital communications such as email, text messages, tweets, and forum posts. The service can automatically infer, from potentially noisy social media, portraits of individuals that reflect their personality characteristics. The service can report consumption preferences based on the results of its analysis, and for JSON content that is timestamped, it can report temporal behavior."

}]

}

}

}],

"OutputTimeStamp": "20171009 15:32:13.522",

"Output": [{

"Invoke": "GetServiceCredential:1:1507537933516",

"Event": "Service.GetServiceCredential",

"Type": "REQ",

"RawData": "/v1/ServiceManagement/ServiceCredential/PersonalityInsights?commandId=ExternalAPI-1507537933488-9861&appName=myAis",

"Data": {}

}],

"CurrentState": "IDLE",

"NextState": "W\_SERVICE\_CREDENTIAL",

"ProcessingTime": "860 ms"

}

}

20171009 15: 32: 14 | IBM | ExtAPI | 0 | {

"ExtAPI.Details": {

"Session": "2033441602:ExtAPI.ES05.SACF.0",

"InitInvoke": ["2033441602"],

"Scenario": "IBM-API:PersonalityInsights:profile",

"Identity": "myAis-1505981226052-0001",

"InputTimeStamp": "20171009 15:32:14.266",

"Input": [{

"Invoke": "GetServiceCredential:1:1507537933516",

"Event": "Service.GetServiceCredential",

"Type": "RES",

"RawData": "{ \"resultCode\": \"20000\",

\"developerMessage\": \"Success\",

\"username\": \"bc93eb8a-341b-40a7-9800-127ee35cc664\",

\"password\": \"FAM6GfxGA3GF\",

\"url\": \"https://gateway.watsonplatform.net/personality-insights/api\" }",

"Data": {

"resultCode": "20000",

"url": "https://gateway.watsonplatform.net/personality-insights/api"

},

"ResTime": "744 ms"

}],

"OutputTimeStamp": "20171009 15:32:14.280",

"Output": [{

"Invoke": "SearchDNSPartner:1:1507537934274",

"Event": "E01.SearchDNSPartner",

"Type": "REQ",

"RawData": "{\"command\":\"search\",\"objectType\":\"DNSPartner\",\"key\":[\"0\",\"IBM\",\"PersonalityInsights\",\"profile\",\"\"]}",

"Data": {

"command": "search",

"objectType": "DNSPartner",

"key": ["0", "IBM", "PersonalityInsights", "profile", ""]

}

}],

"CurrentState": "W\_SERVICE\_CREDENTIAL",

"NextState": "W\_E01\_DNS\_PARTNER",

"ProcessingTime": "14 ms"

}

}

20171009 15: 32: 15 | IBM | ExtAPI | 0 | {

"ExtAPI.Details": {

"Session": "2033441602:ExtAPI.ES05.SACF.0",

"InitInvoke": ["2033441602"],

"Scenario": "IBM-API:PersonalityInsights:profile",

"Identity": "myAis-1505981226052-0001",

"InputTimeStamp": "20171009 15:32:14.489",

"Input": [{

"Invoke": "SearchDNSPartner:1:1507537934274",

"Event": "E01.SearchDNSPartner",

"Type": "RES",

"RawData": "{\"command\":\"search\",\"objectType\":\"DNSPartner\",\"key\":[\"0\",\"IBM\",\"PersonalityInsights\",\"profile\"],\"data\":{\"service\":\"ExternalAPI.ES04.Watson\",\"url\":\"/v3/profile\",\"authenType\":\"userPwd\",\"urlNew\":\"/v3/profile\"}}",

"Data": {

"command": "search",

"objectType": "DNSPartner",

"key": ["0", "IBM", "PersonalityInsights", "profile"],

"data": {

"url": "/v3/profile",

"authenType": "userPwd"

}

},

"ResTime": "209 ms"

}],

"OutputTimeStamp": "20171009 15:32:14.517",

"Output": [{

"Invoke": "IBM-API:1:1507537934504",

"Event": "SACF.IBM-API-Service",

"Type": "REQ",

"RawData": "<ERDHeader><Header name=\"Authorization\" value=\"Basic YmM5M2ViOGEtMzQxYi00MGE3LTk4MDAtMTI3ZWUzNWNjNjY0OkZBTTZHZnhHQTNHRg==\" /><Header name=\"x-redirect-url\" value=\"https://gateway.watsonplatform.net/personality-insights/api/v3/profile?version=2017-10-20\" /><Header name=\"Content-Type\" value=\"application/json\" /><Header name=\"Accept\" value=\"application/json\" /><Header name=\"Content-Language\" value=\"en\" /><Header name=\"Accept-Language\" value=\"en\" /></ERDHeader><ERDData value=\"{ &quot;contentItems&quot;: [{ &quot;content&quot;: &quot;The IBM Watson Personality Insights service provides a Representational State Transfer (REST) Application Programming Interface (API) that enables applications to derive insights from social media, enterprise data, or other digital communications. The service uses linguistic analytics to infer individuals&apos; intrinsic personality characteristics, including Big Five, Needs, and Values, from digital communications such as email, text messages, tweets, and forum posts. The service can automatically infer, from potentially noisy social media, portraits of individuals that reflect their personality characteristics. The service can report consumption preferences based on the results of its analysis, and for JSON content that is timestamped, it can report temporal behavior.&quot;, &quot;contenttype&quot;: &quot;text/plain&quot;, &quot;language&quot;: &quot;en&quot; }] }\"/>",

"Data": {

"header": [{

"name": "Authorization",

"value": "Basic YmM5M2ViOGEtMzQxYi00MGE3LTk4MDAtMTI3ZWUzNWNjNjY0OkZBTTZHZnhHQTNHRg=="

}, {

"name": "x-redirect-url",

"value": "https://gateway.watsonplatform.net/personality-insights/api/v3/profile?version=2017-10-20"

}, {

"name": "Content-Type",

"value": "application/json"

}, {

"name": "Accept",

"value": "application/json"

}, {

"name": "Content-Language",

"value": "en"

}, {

"name": "Accept-Language",

"value": "en"

}],

"body": {

"contentItems": [{

"content": "The IBM Watson Personality Insights service provides a Representational State Transfer (REST) Application Programming Interface (API) that enables applications to derive insights from social media, enterprise data, or other digital communications. The service uses linguistic analytics to infer individuals' intrinsic personality characteristics, including Big Five, Needs, and Values, from digital communications such as email, text messages, tweets, and forum posts. The service can automatically infer, from potentially noisy social media, portraits of individuals that reflect their personality characteristics. The service can report consumption preferences based on the results of its analysis, and for JSON content that is timestamped, it can report temporal behavior."

}]

}

}

}],

"CurrentState": "W\_E01\_DNS\_PARTNER",

"NextState": "W\_API\_PARTNER",

"ProcessingTime": "28 ms"

}

}

20171009 15: 32: 16 | IBM | ExtAPI | 0 | {

"ExtAPI.Details": {

"Session": "2033441602:ExtAPI.ES05.SACF.0",

"InitInvoke": ["2033441602"],

"Scenario": "IBM-API:PersonalityInsights:profile",

"Identity": "myAis-1505981226052-0001",

"InputTimeStamp": "20171009 15:32:15.585",

"Input": [{

"Invoke": "IBM-API:1:1507537934504",

"Event": "SACF.IBM-API-Service",

"Type": "RES",

"RawData": "<ERDHeader><Header name=\"Pragma\" value=\"hop=1142796082:VS\_ExtAPI.ES05.SACF.0; end=\" /><Header name=\"Set-Cookie\" value=\"host=; port=23500; via=auto; session=1142796082\" /><Header name=\"Accept\" value=\"application/json\" /><Header name=\"Content-Language\" value=\"en\" /><Header name=\"Accept-Language\" value=\"en\" /><Header name=\"Content-Type\" value=\"application/json\" /><Header name=\"Content-Length\" value=\"11126\" /></ERDHeader><ERDData value=\" { &quot;word\_count&quot;: 103, &quot;word\_count\_message&quot;: &quot;There were 103 words in the input. We need a minimum of 600, preferably 1,200 or more, to compute statistically significant estimates&quot;, &quot;processed\_language&quot;: &quot;en&quot;, &quot;personality&quot;: [{ &quot;trait\_id&quot;: &quot;big5\_openness&quot;, &quot;name&quot;: &quot;Openness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.9419901585070444, &quot;children&quot;: [{ &quot;trait\_id&quot;: &quot;facet\_adventurousness&quot;, &quot;name&quot;: &quot;Adventurousness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.7039184189857008 }, { &quot;trait\_id&quot;: &quot;facet\_artistic\_interests&quot;, &quot;name&quot;: &quot;Artistic interests&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.25012526123098966 }, { &quot;trait\_id&quot;: &quot;facet\_emotionality&quot;, &quot;name&quot;: &quot;Emotionality&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.06114166098801965 }, { &quot;trait\_id&quot;: &quot;facet\_imagination&quot;, &quot;name&quot;: &quot;Imagination&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.5842673131490224 }, { &quot;trait\_id&quot;: &quot;facet\_intellect&quot;, &quot;name&quot;: &quot;Intellect&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.9352859036042205 }, { &quot;trait\_id&quot;: &quot;facet\_liberalism&quot;, &quot;name&quot;: &quot;Authority-challenging&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.9911495661857173 }] }, { &quot;trait\_id&quot;: &quot;big5\_conscientiousness&quot;, &quot;name&quot;: &quot;Conscientiousness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.37171487595491015, &quot;children&quot;: [{ &quot;trait\_id&quot;: &quot;facet\_achievement\_striving&quot;, &quot;name&quot;: &quot;Achievement striving&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.7118571645159613 }, { &quot;trait\_id&quot;: &quot;facet\_cautiousness&quot;, &quot;name&quot;: &quot;Cautiousness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.800612567487107 }, { &quot;trait\_id&quot;: &quot;facet\_dutifulness&quot;, &quot;name&quot;: &quot;Dutifulness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.39992000108860976 }, { &quot;trait\_id&quot;: &quot;facet\_orderliness&quot;, &quot;name&quot;: &quot;Orderliness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.16614259488044453 }, { &quot;trait\_id&quot;: &quot;facet\_self\_discipline&quot;, &quot;name&quot;: &quot;Self-discipline&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.6799427224453404 }, { &quot;trait\_id&quot;: &quot;facet\_self\_efficacy&quot;, &quot;name&quot;: &quot;Self-efficacy&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.7488003647788268 }] }, { &quot;trait\_id&quot;: &quot;big5\_extraversion&quot;, &quot;name&quot;: &quot;Extraversion&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.769825199283471, &quot;children&quot;: [{ &quot;trait\_id&quot;: &quot;facet\_activity\_level&quot;, &quot;name&quot;: &quot;Activity level&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.8186842409101049 }, { &quot;trait\_id&quot;: &quot;facet\_assertiveness&quot;, &quot;name&quot;: &quot;Assertiveness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.9368803673458745 }, { &quot;trait\_id&quot;: &quot;facet\_cheerfulness&quot;, &quot;name&quot;: &quot;Cheerfulness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.08568528494419031 }, { &quot;trait\_id&quot;: &quot;facet\_excitement\_seeking&quot;, &quot;name&quot;: &quot;Excitement-seeking&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.41737409880713605 }, { &quot;trait\_id&quot;: &quot;facet\_friendliness&quot;, &quot;name&quot;: &quot;Outgoing&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.11903701590788546 }, { &quot;trait\_id&quot;: &quot;facet\_gregariousness&quot;, &quot;name&quot;: &quot;Gregariousness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.28885133262983254 }] }, { &quot;trait\_id&quot;: &quot;big5\_agreeableness&quot;, &quot;name&quot;: &quot;Agreeableness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.059676107963974434, &quot;children&quot;: [{ &quot;trait\_id&quot;: &quot;facet\_altruism&quot;, &quot;name&quot;: &quot;Altruism&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.15719464949941875 }, { &quot;trait\_id&quot;: &quot;facet\_cooperation&quot;, &quot;name&quot;: &quot;Cooperation&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.5311829109768751 }, { &quot;trait\_id&quot;: &quot;facet\_modesty&quot;, &quot;name&quot;: &quot;Modesty&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.07090707046748224 }, { &quot;trait\_id&quot;: &quot;facet\_morality&quot;, &quot;name&quot;: &quot;Uncompromising&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.12384491263638048 }, { &quot;trait\_id&quot;: &quot;facet\_sympathy&quot;, &quot;name&quot;: &quot;Sympathy&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.27095816026778674 }, { &quot;trait\_id&quot;: &quot;facet\_trust&quot;, &quot;name&quot;: &quot;Trust&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.9247631005981167 }] }, { &quot;trait\_id&quot;: &quot;big5\_neuroticism&quot;, &quot;name&quot;: &quot;Emotional range&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.6755651399913001, &quot;children&quot;: [{ &quot;trait\_id&quot;: &quot;facet\_anger&quot;, &quot;name&quot;: &quot;Fiery&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.3391256730478402 }, { &quot;trait\_id&quot;: &quot;facet\_anxiety&quot;, &quot;name&quot;: &quot;Prone to worry&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.5666725848376579 }, { &quot;trait\_id&quot;: &quot;facet\_depression&quot;, &quot;name&quot;: &quot;Melancholy&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.7616169291993752 }, { &quot;trait\_id&quot;: &quot;facet\_immoderation&quot;, &quot;name&quot;: &quot;Immoderation&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.006761221762454028 }, { &quot;trait\_id&quot;: &quot;facet\_self\_consciousness&quot;, &quot;name&quot;: &quot;Self-consciousness&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.6409526346582101 }, { &quot;trait\_id&quot;: &quot;facet\_vulnerability&quot;, &quot;name&quot;: &quot;Susceptible to stress&quot;, &quot;category&quot;: &quot;personality&quot;, &quot;percentile&quot;: 0.369675866131936 }] }], &quot;needs&quot;: [{ &quot;trait\_id&quot;: &quot;need\_challenge&quot;, &quot;name&quot;: &quot;Challenge&quot;, &quot;category&quot;: &quot;needs&quot;, &quot;percentile&quot;: 0.35446753801682473 }, { &quot;trait\_id&quot;: &quot;need\_closeness&quot;, &quot;name&quot;: &quot;Closeness&quot;, &quot;category&quot;: &quot;needs&quot;, &quot;percentile&quot;: 0.2619340172144685 }, { &quot;trait\_id&quot;: &quot;need\_curiosity&quot;, &quot;name&quot;: &quot;Curiosity&quot;, &quot;category&quot;: &quot;needs&quot;, &quot;percentile&quot;: 0.7008245099261644 }, { &quot;trait\_id&quot;: &quot;need\_excitement&quot;, &quot;name&quot;: &quot;Excitement&quot;, &quot;category&quot;: &quot;needs&quot;, &quot;percentile&quot;: 0.279999893071971 }, { &quot;trait\_id&quot;: &quot;need\_harmony&quot;, 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20171009 15: 32: 16 | IBM | ExtAPI | 0 | {

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"message": "There were 103 words in the input. We need a minimum of 600, preferably 1,200 or more, to compute statistically significant estimates"

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"CurrentState": "W\_E01\_ERROR\_PARTNER",

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