

IBM Guardium  
Discover and Classify

# STREAMING API NOTIFICATIONS

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IBM GUARDIUM DISCOVER AND CLASSIFY

VERSION 4.3.2

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## INTRODUCTION

### WHAT IS STREAMING API?

Streaming APIs are used to examine data in real-time for users to gather up-to-date information. A streaming API (aka HTTP Push) works by the client opening a socket, providing some criteria of the data it wants to receive and the server will deliver new data as it is received over the open socket.

The streaming API model is usually implemented for reading data. It is used to deliver data to consumers, not to make writes or deletes. The streaming API conveys new data as it is obtained over the open socket, delivering concise results in real-time.

### KAFKA STREAMING

The IGDC platform utilizes Apache Kafka - a distributed event streaming platform capable of handling trillions of events a day.



Subscribing to Kafka topics and receiving notifications when a topic has been updated is supported by a variety of platforms and interfaces; For information on how to implement subscription & notification in your system, see [Kafka Documentation](#).

## SUBSCRIBING TO KAFKA TOPICS

IGDC uses Kafka to interact between services and provides a way for consumers to subscribe from outside, if firewall rules allow it. This section describes how to connect to Kafka inputs.

In the Kafka Console Consumer tool, execute the command below:

```
kubect1 -n {NAMESPACE} exec -t kafka-cm-tls-0 kafka -- kafka-console-consumer.sh --boot-strap-server localhost:9094 --from-beginning --topic sources
```

Table 1: Kafka console consumer tool parameters

VARIABLE	DESCRIPTION
NAMESPACE	Namespace, where IGDC is installed. For example, <i>dc-engine-cm</i> .
kafka-cm-tls-0	Pod name that manages Kafka containers. For example, <i>kafka-cm-tls-0</i> .
kafka-console-consumer.sh	Consumer tool script, which accepts bootstrap-server, topic and other parameters.

**Python snippet:**

```
from app.settings import *

from confluent_kafka import Consumer

config = {

    'bootstrap.servers': f"{KAFKA_SERVER_HOST}:{KAFKA_SERVER_PORT}",

    'group.id': "sources-1",

    'security.protocol': 'SASL_SSL',

    'sasl.username': KAFKA_USERNAME,

    'sasl.mechanism': 'PLAIN',

    'sasl.password': KAFKA_PASSWORD,

    'enable.auto.commit': True,

    "auto.offset.reset": 'earliest',

    'session.timeout.ms': 30000,

    'ssl.ca.location': f"{KAFKA_CACERT_FILENAME}",

    'ssl.certificate.location': f"{KAFKA_CERT_FILENAME}",

    'ssl.key.location': f"{KAFKA_KEY_FILENAME}",
```

```

    'enable.ssl.certificate.verification': False,

    "enable.partition.eof": True

}

consumer = Consumer(config)

consumer.subscribe(['sources'])

while True:

    msg = consumer.consume(1)

    if msg:

        print(msg[0].value())

```

Table 2: Python snippet variables

VARIABLE	DESCRIPTION
KAFKA_SERVE_HOST	Ingress controller public IP address, usually - Node IP:  <pre>kubectl get node &lt;node&gt; -o jsonpath='{.status.addresses[?(@.type=="InternalIP")].address}'</pre>
KAFKA_SERVE_PORT	Publicly exposed kafka port for API purposes:  <pre>kubectl -n "\$NAMESPACE" get svc kafka-cm-tls-0-external -o jsonpath='{.spec.ports[0].nodePort}'</pre>
KAFKA_USERNAME	Basic Auth username for Kafka, usually set during deployment:  <pre>kubectl -n "\$NAMESPACE" get secrets control-plane-kafka -o jsonpath='{.data.username}'   base64 -d</pre>
KAFKA_PASSWORD	Basic Auth password for Kafka, also set during deployment:  <pre>kubectl -n "\$NAMESPACE" get secrets control-plane-kafka -o jsonpath='{.data.-password}'   base64 -d</pre>
KAFKA_KEY_FILENA	Private key for connection to Kafka:

VARIABLE	DESCRIPTION
ME	<pre>kubectl -n int-pavlo get secrets control-plane-kafka-tls -o jsonpath='{.data.kafka-0\keystore\key}'  base64 -d</pre>
KAFKA_CERT_FILENAME	<p>PEM file for SSL connection to Kafka:</p> <pre>kubectl -n int-pavlo get secrets control-plane-kafka-tls -o jsonpath='{.data.kafka-0\keystore\pem}'  base64 -d</pre>
KAFKA_CACERT_FILENAME	<p>Truststore for Kafka certificates:</p> <pre>kubectl -n int-pavlo get secrets control-plane-kafka-tls -o jsonpath='{.data.kafka\truststore\pem}'  base64 -d</pre>

## IGDC KAFKA TOPICS

### CONFIRMED DATA SOURCE

TOPIC NAME	<b>confirmed_repositories</b>
DESCRIPTION	Topic is updated when a new data subject or Candidate record/s have been added to or deleted from a data source.
RESPONSE(S)	<pre> {   "schema_version": "0.4",   "repositoryId": "xxxxxxxxxx2",   "applianceId": "xxxxxxxxxx1",   "url": "url",   "vendor": "Oracle Couchbase",   "type": "Network Cloud Storage Database FS",   "workspace": "ltouch",   "deleted": true,   "has_pii": true,   "subjectType": "RDA Candidate" } </pre>

### DATABASE TOPOLOGY

TOPIC NAME	<b>dbt_erd</b>
DESCRIPTION	Database topology ERD.
RESPONSE(S)	<pre> {   "schema_version": "1.0",   "correlationId": "cs1111",   "createdAtMs": 90558894322,   "id": {     "repositoryId": "123e4567-e89b-12d3-a456-426655440000", </pre>

```
    "schemaId": "s1"
  },
  "deleted": true,
  "product": "BigQuery",
  "erd": {
    "partial": "NO",
    "tables": [
      {
        "name": "s1.address",
        "fields": [
          {
            "name": "id",
            "type": "int4:10"
          },
          {
            "name": "street",
            "type": "varchar:2147483647",
            "entityType": "STREET_ADDRESS"
          },
          {
            "name": "city",
            "type": "varchar:2147483647",
            "entityType": "CITY"
          }
        ]
      }
    ]
  }
}
```

```
        "name": "countryId",
        "type": "int4:10"
    }
}],
{
    "name": "s1.country",
    "fields": [
        {
            "name": "id",
            "type": "int4:10"
        },
        {
            "name": "name",
            "type": "varchar:2147483647",
            "entityType": "COUNTRY"
        }
    ]
}, {
    "name": "s1.user_details",
    "fields": [
        {
            "name": "id",
            "type": "int4:10"
        },
        {
```

```
    "name": "addressId",
    "type": "int4:10"
  },
  {
    "name": "first_name",
    "type": "varchar:2147483647",
    "entityType": "FIST_NAME"
  },
  {
    "name": "last_name",
    "type": "varchar:2147483647",
    "entityType": "LAST_NAME"
  },
  {
    "name": "sex",
    "type": "varchar:2147483647"
  }
]
},{
  "name": "s1.user_details",
  "fields": [
    {
      "name": "id",
      "type": "int4:10"
    },
  ],
```

```
{
  "name": "addressId",
  "type": "int4:10"
},
{
  "name": "first_name",
  "type": "varchar:2147483647",
  "entityType": "FIST_NAME"
},
{
  "name": "last_name",
  "type": "varchar:2147483647",
  "entityType": "LAST_NAME"
},
{
  "name": "sex",
  "type": "varchar:2147483647"
}
], {
  "name": "s1.users",
  "fields": [
    {
      "name": "id",
      "type": "int4:10"
```

```
    },  
  
    {  
  
      "name": "login",  
  
      "type": "varchar:2147483647"  
  
    },  
  
    {  
  
      "name": "email",  
  
      "type": "varchar:2147483647"  
  
    }  
  
  ]  
  
}  
  
], "refs": [  
  
  {  
  
    "links": [  
  
      {  
  
        "from": "s1.country.id",  
  
        "to": "s1.address.countryId"  
  
      }  
  
    ],  
  
    "type": "AUTO"  
  
  },  
  
  {  
  
    "links": [  
  
      {  
  
        "from": "s1.country.id",
```

```
        "to": "l.address.countryId"
      }
    ],
    "type": "AUTO"
  },
  {
    "links": [
      {
        "from": "s1.user_details.id",
        "to": "s1.users.id"
      }
    ],
    "type": "AUTO"
  }
], "idx": [
  {
    "name": "address_pkey",
    "fields": [
      "s1.address.id"
    ],
    "unique": true
  },
  {
    "name": "country_pkey",
    "fields": [
```

```
        "sl.country.id"
    ],
    "unique": true
},
{
    "name": "user_details_pkey",
    "fields": [
        "sl.user_details.id"
    ],
    "unique": true
},
{
    "name": "users_pkey",
    "fields": [
        "sl.users.id"
    ],
    "unique": true
}, {
    "name": "idx_address_phone",
    "fields": [
        "sl.users.login",
        "sl.users.email"
    ],
    "unique": false
}
```

```

    ]
  }
}

```

**DATA SAMPLE**

<b>TOPIC NAME</b>	<b>dbt_data_samples</b>
<b>DESCRIPTION</b>	Displays data samples for each table.
<b>RESPONSE(S)</b>	<pre> {   "schema_version": "1.0",   "id": {     "repositoryId": "123e4567-e89b-12d3-a456-426655440000",     "schemaId": "s1"   },   "deleted": true,   "contentType": "TEXT"   "correlationId": "ccl123",   "sec": {     "type": "token AES",     "iv": "1f77bcf86cd279943901",     "keyId": "somekey/abc",     "keyVer": "1",     "applies": [       "NATIONAL_ID",       "PASSPORT_NUMBER"     ]   } } </pre>

```
},  
  
"dataSample": [  
  
  {  
  
    "source": "VIEW",  
  
    "name": "s1.view",  
  
    "fieldSample": [  
  
      {  
  
        "fieldName": "id",  
  
        "values": ["1", "2", "3"]  
  
      }  
  
    ]  
  
  },  
  
  {  
  
    "source": "TABLE"  
  
    "name": "s1.address",  
  
    "fieldSample": [  
  
      {  
  
        "fieldName": "id",  
  
        "values": ["1", "2", "3"]  
  
      },  
  
      {  
  
        "fieldName": "street",  
  
        "values": ["Burt Ash Rd", "st2", "st2"]  
  
      },  
  
      {
```

```
    "fieldName": "city",
    "values": ["London", "Hastings", "Oxford"]
  },
  {
    "fieldName": "countryId",
    "values": ["1", "1", "1"]
  }
]
},
{
  "source": "TABLE"
  "name": "s1.country",
  "fieldSample": [
    {
      "fieldName": "id",
      "values": ["1", "2", "3"]
    },
    {
      "fieldName": "name",
      "values": ["UK", "USA", "Ukraine"]
    }
  ]
}
]
```

## SYSTEM EVENTS

TOPIC NAME	<b>events</b>
DESCRIPTION	Topic for system events.
RESPONSE(S)	<pre> {   "schema_version": "0.1",   "name": "NewFile",   "code": 1000001,   "ts": 1000001000,   "sourceId": "552f639947d5ce0d79bf841e79fc6b7e",   "repositoryId": "552f639947d5ce0d79bf841e79fc6b7e",   "applianceId": "552f639947d5ce0d79bf841e79fc6b7e",   "storageType": "FS DB NET",   "path": "schema.vvid c://xxx/yyy/file.pdf",   "contentType": "pdf txt png",   "categories": [] } </pre>

## FETCHING INSTRUCTIONS

TOPIC NAME	<b>dbt_fetching_instructions</b>
DESCRIPTION	Used to communicate fetching instructions for the database.
RESPONSE(S)	<pre> {   "schema_version": "1.0",   "id": {     "repositoryId": "123e4567-e89b-12d3-a456-426655440000",     "schemaId": "s1"   } } </pre>

```
},  
  
"product": "BigQuery",  
  
"deleted":false,  
  
"erdHash":"426655440000e89b12d3",  
  
"constraints": [{"NATIONAL_ID"}, {"PASSPORT_NUMBER"},  
{"GIVEN_NAME", "PHONE_NUMBER"}],  
  
"views": [  
  
  {  
  
    "id": "123e4567-e89b-12d3-a456",  
  
    "root": "s1.address",  
  
    "fields": [  
  
      {  
  
        "name": "s1.address.street",  
  
        "type": "STREET_ADDRESS",  
  
        "mandatory": true  
  
      },  
  
      {  
  
        "name": "s1.address.city",  
  
        "type": "CITY"  
  
      },  
  
      {  
  
        "name": "s1.country.name",  
  
        "type": "GIVEN_NAME"  
  
      }  
  
    ],  
  
  ],  
  
],
```

```
"refs": [  
  
  {  
  
    "links": [  
  
      {  
  
        "from": "s1.country.id",  
  
        "to": "s1.address.countryId"  
  
      }  
  
    ],  
  
    "type": "AUTO"  
  
  }  
  
],  
  
"meta": {  
  
  "type": "UNCONFIRMED",  
  
  "changeMethod": "MANUAL",  
  
  "name": "some optional name",  
  
  "description": "some optional descr"  
  
}  
  
},  
  
],  
  
"instructions": [  
  
  {  
  
    "applyTo":["s1.country.id","s1.country.name"],  
  
    "setProps":{  
  
      "samples": 100,  
  
      "trimTo": 256,  
  
    }  
  
  }  
  
]
```

```

        "models": [
            {
                "id": "calsStats",
                "samples": 1000
            }
        ]
    }
}
]
}

```

### INCOMING DATA SOURCES

TOPIC NAME	<b>incoming_repositories</b>
DESCRIPTION	Topic for unconfirmed newfound data sources.
RESPONSE(S)	<pre> {     "schema_version": "2.0",     "applianceId": "some long string",     "src": "networkdiscovery discovery manual gdp ...",     "location":{         "region":{ "type":"AWS","id":"central-west2",         "zone":"west-c"},         "address":{"county":"US","area":"NY/...",         "city":"NY","zip":"2345"},     },     "product": { </pre>

```

        "product": "ORACLE",

        "vendor": "ORACLE", //optional. In some cases we should

        define it from other params

        "type": "DB"

    },

    "externalIds": [

        "arn:aws:elasticache:eu-west-3:074851364937:parametergroup:

        default.memcached1.4"

    ],

    "params": {

        "host": "localhost",

        "port": "27001",

        "sid": "oracle",

        "username": "user1",

        "database": "user2"

        "owner_id": "some account id"

    }

}
    
```

**CONFIRMED DATA SOURCES**

TOPIC NAME	<b>confirmed_repositories</b>
DESCRIPTION	Topic for uconfirmed data sources, their description, and ID.
RESPONSE(S)	<pre> {      "schema_version": "0.4",         </pre>

```

        "repositoryId": "xxxxxxxxxx2",

        "applianceId": "xxxxxxxxxx1",

        "url": "url",

        "vendor": "Oracle|Couchbase",

        "type": "Network|Cloud Storage|Database|FS",

        "workspace": "1touch",

        "deleted": true,

        "has_pii": true,

        "subjectType": "RDA|Candidate"

    }
    
```

### DATA ASSET

TOPIC NAME	<b>data_assets</b>
DESCRIPTION	Topic is updated when: <ul style="list-style-type: none"> <li>• A new Data Asset has been created</li> <li>• A Data Asset has been updated</li> <li>• A Data Asset has been deleted.</li> </ul>
RESPONSE(S)	<pre>                 {                  "type": "UPDATE",                  "schemaVersion": "2.1",                  "metadata": {                      "id": "a8fb62fc-7efa-4dfb-bf8e-7e605e58cd7f",                      "name": "data asset name",                      "description": "Customers of Europe, North America, Asia",                      "sensitivity": "Critical",                      "type": "PERSONAL SENSITIVE",                 }                 </pre>

```
"dataAssetClassificationType":
"CUSTOMER|EMPLOYEE|ORGANIZATION|PARTNER_3RD_PARTY_ORGANIZATION",
"businessRepresentative": {
  "firstName": "John",
  "lastName": "Connor",
  "email": "john.connor@skynet.com"
},
"businessUnit": "businessUnit",
"role": "role",
"reasonsOfProcessing": [
  "reason0",
  "reason1"
],
"risks": [
  "risk1",
  "risk0"
],
"linkedRootDataAssets": [
  "432017797386076449",
  "432018234453143105",
  "432017797357764833"
],
"linkedTags": [
  "CCPA",
  "Tokenize",
```

```

        "Move",

        "LAN"

    ]

}

}
    
```

### DATA SUBJECT SOURCE

<b>TOPIC NAME</b>	<b>sources</b>
<b>DESCRIPTION</b>	Topic is updated when a Source has been added to a Fileshare, Database, or Network Repository. Source can be a File or Record type.
<b>RESPONSE (S)</b>	Example with FS key and File content
	<pre> {    "schema_version": "3.0",    "id": "552f639947d5ce0d79",    "type": "Candidate",    "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",    "lut": 1584465351,    "key": {      "type": "FS",      "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",      "path": "/filestorage/important/file.txt"    },    "content": {      "type": "File",      "fileType": "xls",      "meta": {                 </pre>

```
    "size":1875412069075701099,

    "owner":"John Dow",

    "lastChanged":"ts",

    "created":"ts"

  },

  "categories":[

    "341jgBsTA4"

  ],

  "enttypes":[

    "NATIONID",

    "... "

  ]

}

}
```

**Example with Database key and Entity content**

```
{

  "schema_version":"3.0",

  "id":"552f6399-47d5-ce0d-79bf-841e79fc6b89",

  "type":"Candidate",

  "applianceId":"552f6399-47d5-ce0d-79bf-841e79fc6b7e",

  "lut":1584465351,

  "key":{

    "type":"Database",

    "repositoryId":"552f6399-47d5-ce0d-79bf-841e79fc6b7e",
```

```
    "viewId":"schema.vvid"

  },

  "content":{

    "type":"Entity",

    "meta":{

      "tableNames":[

        "Table1",

        "Table2",

        "Table3"

      ]

    },

    "enttypes":[

      "NATIONID",

      "... "

    ]

  }

}
```

**Example with Database key and File content**

```
{

  "schema_version":"3.0",

  "id":"552f6399-47d5-ce0d-79bf-841e79fc6b89",

  "type":"RDA",

  "applianceId":"552f6399-47d5-ce0d-79bf-841e79fc6b7e",
```

```
"lut":1584465351,

"key":{

  "type":"Database",

  "repositoryId":"552f6399-47d5-ce0d-79bf-841e79fc6b7e",

  "viewId":"schema.vvid"

},

"content":{

  "type":"File",

  "fileType":"xls|doc|txt",

  "meta":{

    "size":1875412069075701099,

    "owner":"John Dow",

    "lastChanged":"ts",

    "created":"ts"

  },

  "categories":[

    "race|sex|religion"

  ],

  "enttypes":[

    "NATIONID",

    "... "

  ]

}

}
```

## Example with Network key and Entity content

```
{
  "schema_version": "3.0",
  "id": "552f6399-47d5-ce0d-79bf-841e79fc6b89",
  "type": "Candidate",
  "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
  "lut": 1584465351,
  "key": {
    "type": "Network",
    "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "client": "host|ip",
    "path": "fileid|dbid?"
  },
  "content": {
    "type": "Entity",
    "enttypes": [
      "NATIONID",
      "..."
    ]
  }
}
```

	Example with SaasApplication key and File content
--	---

```
{
  "schema_version": "3.0",
  "id": "552f6399-47d5-ce0d-79bf-841e79fc6b89",
  "type": "Candidate",
  "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
  "lut": 1584465351,
  "key": {
    "type": "SaasApplication",
    "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "path": "/filestorage/important/file.txt"
  },
  "content": {
    "type": "File",
    "fileType": "txt",
    "meta": {
      "size": 1875412069075701099,
      "owner": "John Dow",
      "lastChanged": "ts",
      "created": "ts"
    },
    "categories": [
      "race|sex|religion"
    ],
    "enttypes": [
      "NATIONID",
```



	Example with SaasApplication key and Entity content
--	---

```
{
  "schema_version": "3.0",
  "id": "552f6399-47d5-ce0d-79bf-841e79fc6b89",
  "type": "Candidate",
  "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
  "lut": 1584465351,
  "key": {
    "type": "SaasApplication",
    "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "viewId": "schema.vvid"
  },
  "content": {
    "type": "Entity",
    "meta": {
      "tableNames": [
        "Table1",
        "Table2",
        "Table3"
      ]
    },
    "enttypes": [
      "NATIONID",
      "..."
    ]
  }
}
```

## Example with Email key and Email content

```
{
  "schema_version": "3.1",
  "id": "552f6399-47d5-ce0d-79bf-841e79fc6b89",
  "type": "Candidate",
  "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
  "lut": 1584465351,
  "key": {
    "type": "Email",
    "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "messageId": "99-47d5-ce0d-79bf-841e79"
  },
  "content": {
    "type": "Email",
    "mailboxOwner": "mailbox.owner",
    "headers": {
      "to": [
        "recp@comp.com",
        "another@email.com"
      ],
      "from": [
        "Name Nick <recp@comp.com>"
      ],
      "sender": [
        "recp@comp.com"
      ]
    }
  }
}
```

```
    ],
    "cc": [
        "cc@comp.com"
    ],
    "bcc": [
        "bcc@comp.com"
    ]
},
"attachments": [
    "file.xml",
    "file.csv"
],
"folder": "draft|archived|...",
"messageTs": 1233455,
"meta": {
    "size": 150000
},
"categories": [
    "race|sex|religion"
],
"enttypes": [
    "NATIONID",
    "..."
]
}
```

	<pre>} </pre>
	<b>Example with ID key and Entity content</b>
	<pre>{   "schema_version": "3.3",   "id": "a4514aeff8786070eb371b6370f4ce3e204f5de12713ee783cf83819c8f9a622",   "type": "Candidate",   "applianceId": "1e278399-56d5-ab45-79bf-841e79fc54e2",   "lut": 13491823,   "key": {     "type": "ID",     "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",     "id": "D011S26RA10",     "details": {       "name": "upl",       "link": "link"     }   },   "content": {     "type": "Entity",     "enttypes": [       "TAX_ID",       "CC_NUMBER"     ]   } }</pre>

	}
--	---

## CANDIDATE

<b>TOPIC NAME</b>	<b>pii_candidates</b>
<b>DESCRIPTION</b>	Topic is updated when a new Candidate record has been identified. The response will include all data element data associated with the Candidate record.
<b>RESPONSE (S)</b>	<pre> {    "schema_version": "1.1",    "id": "1335869f90ealc664f6ec- c1deab97f9e37c8ad27d8e136b931ab16e16022bb56",    "piiSrcId": "507f1f77bcf86cd799439012",    "meta": {      "cycleId" : "6cd97f1012507997bc43f7f8"    },    "personalInfo": {      "NATIONAL_ID" : ["279-87-6784"],      "PASSPORT_NUMBER": ["629627248"],      "DRIVER_LICENSE": ["G776208445599"],      "TAX_ID": ["392655084009"],      "CC_NUMBER": ["2434392655084637"],      "CC_TYPE": ["Mastercard"],      "CVV2": ["311"],      "CC_EXPIRES": ["4/2019"],      "GIVEN_NAME": ["Jennifer"],      "VEHICLE_NUMBER": ["ZHV-421"],      "PHONE_NUMBER": ["771-658-2269"], </pre>

```

        "SURNAME":["Pelegrin"],

        "BIRTHDAY":["03/12/99"],

        "CITY":["Anchorage"],

        "STREET_ADDRESS":["2189 Timbercrest Road"],

        "GENDER":["Female"],

        "FULL_NAME":["Ms. Jennifer Pelegrin"],

        "MOTHERS_MAIDEN":["Khaleel"],

        "COUNTRY_CODE":["USA"],

        "COUNTRY":["United States"],

        "STATE":["Alaska"],

        "ZIP_CODE":["20428"],

        "EMAIL_ADDRESS":["pelegrin@cutekittens.com"],

        "USERNAME":["13khaleel9"]

    }

}
    
```

### DATA SUBJECT LOG RECORDS

TOPIC NAME	<b>pii_log_record</b>
DESCRIPTION	Topic where crawlers send candidates in the form of log records.

RESPONSE (S)	FS-File example
-----------------	-----------------

```
{
  {
    "schema_version": "3.1",
    "type": "Candidate",
    "cycleId": "79bf-841e79fc6b7e552f639947d5ce0d",
    "source": {
      "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
      "ts": 1123344455,
      "key": {
        "type": "FS",
        "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
        "path": "/important/personalData.pdf",
        "originDetails": {
          "url": "url",
          "vendor": "xxxxxx",
          "repositoryType": "CloudStorage"
        }
      },
      "content": {
        "type": "File",
        "fileType": "pdf",
        "meta": {
          "size": 150000,
          "owner": "John Dow",
          "lastChanged": 12334,

```



	DB-Ent example
--	----------------

```
{
  {
    "schema_version": "3.1",
    "type": "Candidate",
    "cycleId": "79bf-841e79fc6b7e552f639947d5ce0d",
    "source": {
      "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
      "ts": 1123344455,
      "key": {
        "type": "Database",
        "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
        "viewId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
        "originDetails": {
          "url": "url",
          "vendor": "vendor",
          "repositoryType": "Database"
        }
      },
    },
    "content": {
      "type": "Entity",
      "meta": {"tableNames": ["users", "emails", ""]}
    }
  },
  "personalInfo": [
    {
```



	DB-File example
--	-----------------

```
{
  "schema_version": "3.1",
  "type": "Candidate",
  "cycleId": "79bf-841e79fc6b7e552f639947d5ce0d",
  "source": {
    "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "ts": 1123344455,
    "key": {
      "type": "Database",
      "viewId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
      "repositoryId": "xxe",
      "originDetails": {
        "url": "url",
        "vendor": "xxxxxx",
        "repositoryType": "Database"
      }
    },
  },
  "content": {
    "type": "File",
    "fileType": "pdf",
    "meta": {"size": 1234445},
    "categories": ["political"]
  },
  "personalInfo": [
```



	Network-Entity
--	----------------

```
{
  "schema_version": "3.1",
  "type": "Candidate",
  "cycleId": "79bf-841e79fc6b7e552f639947d5ce0d",
  "source": {
    "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "ts": 1223334,
    "key": {
      "type": "Network",
      "originDetails": {
        "url": "http://somehost:8890",
        "vendor": "centeraCMS",
        "client": "clienthostname",
        "repositoryType": "Central Storage"
      }
    },
    "content": {
      "type": "Entity"
    }
  },
  "personalInfo": [
    {
      "NATIONAL_ID": ["709-48-1890"],
      "CC_NUMBER": ["xxxxxxx"]
    }
  ]
}
```



	Salesforce - entity
--	---------------------

```
{
  "schema_version": "3.1",
  "type": "RDA",
  "cycleId": "79bf-841e79fc6b7e552f639947d5ce0d",
  "source": {
    "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "ts": 1617791241240,
    "key": {
      "type": "Database",
      "viewId": "fc6b7e552f639947d5",
      "repositoryId": "RDA:552f6399-47d5-ce0d-79bf-841e79fc6b7e",
      "originDetails": {
        "url": "https://dsafsd sdf.salesforce.com",
        "vendor": "salesforce",
        "repositoryType": "SaaS Application"
      }
    },
    "content": {
      "type": "Entity",
      "meta": {
        "tableNames": ["User"]
      }
    }
  },
  "personalInfo": [
```



	Salesforce - unstructured data
--	--------------------------------

```
{
  "schema_version": "3.1",
  "type": "Candidate",
  "cycleId": "79bf-841e79fc6b7e552f639947d5ce0d",
  "source": {
    "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
    "ts": 1123344455,
    "key": {
      "type": "FS",
      "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",
      "path": "ContentVersion:552f639947d5",
      //or https://12345-app.-
      //salesforce.com/services/data/v50.0/subjects/ContentVersion/552f639947d5
    }
  },
  "originDetails": {
    "url": "https://12345-app.salesforce.com",
    "vendor": "salesforce",
    "repositoryType": "SaaS Application"
  },
  "content": {
    "type": "File",
    "fileType": "pdf",
    "meta": {
      "size": 150000,
      "owner": "John Dow",

```

## UPR - UNIQUE PII RECORD

TOPIC NAME	<b>upr</b>
DESCRIPTION	Topic is updated when a new confirmed data subject copy has been identified. The response will include all data element data associated with the data subject record.
RESPONSE(S)	<pre> {   "schema_version": "0.1",   "id": "507f1f77bcf86cd799439011",   "deleted": true,   "rda_src": ["507f1f77bcf86cd799439011", "507f1f77bcf86cd799439011"],   "personalInfo": {     "NATIONAL_ID": [       {         "value": "ab777-555-xx",         "refs": ["507f1f77bcf86cd799439012",           "507f1f77bcf86cd799439013", "507f1f77bcf86cd799439014",           "507f1f77bcf86cd799439018"],         "lut": 1584465351       },       {         "value": "ab777-555-yy",         "refs": ["507f1f77bcf86cd799439012"],         "lut": 1584465351       }     ],     "PASSPORT_NUMBER": [       { </pre>

```

    "value": "XXX-YYY-7777",

    "refs": ["507f1f77bcf86cd799439014"],

    "lut": 1584465351

  }

],

"DRIVER_LICENSE": [],

"TAX_ID": [],

"CC_NUMBER": []

}

}

```

CLASSIFICATION INPUT

TOPIC NAME	<b>classification-input</b>
DESCRIPTION	Topic for document content.

RESPONSE(S)	File type
	<pre>{   "txt": "sample text",   "source": {     "sourceType": "FILE",     "repository": {       "type": "CENTRAL_STORAGE",       "vendor": "CIFS_GENERAL",       "path": "Yuri",       "networkElement": {         "hostname": "172.16.3.141",         "ip": null,         "type": "NETWORK_DEVICE",         "topology": null       }     }   },   "name": "Pirkko2.pptx",   "path": "/",   "created": 1580394384768,   "type": "files",   "lastChanged": 1580394385456,   "size": 381671 }</pre>

	Transaction
--	-------------

```
{  
  
  "txt": "El 25 de julio, en la cima de la avenida Mazepa,  
  
  un automóvil Chevrolet Bolt, conducido por un conductor ebrio  
  
  Thomas Smith, entró en un minibús de pasajeros de la ruta 156.  
  
  Después de un tiempo, el conductor del automóvil desapareció de  
  
  la escena de un accidente. La solicitud de todos los que vieron  
  
  o conocen la ubicación exacta del automóvil buscado para informar  
  
  al jefe de los sindicatos de automovilistas Mikhail Tonkonogom o  
  
  la policía. La matrícula del culpable es 933-ORZ, frente al  
  
  automóvil está esencialmente rota y no podía pasar desapercibido  
  
  muy lejos.", "source" : {  
  
    "sourceType" : "TRANSACTION",  
  
    "protocol" : "HTTP",  
  
    "source" : {  
  
      "hostname" : "JU8PU3RS1",  
  
      "ip" : "5aBGW731",  
  
      "type" : "NETWORK_DEVICE",  
  
      "topology" : "LAN"  
  
    },  
  
    "destination" : {  
  
      "hostname" : "A8T81",  
  
      "ip" : "3",  
  
      "type" : "SQL_SERVER",  
  
      "topology" : "EXTERNAL"  
  
    },  
  
  },  
  
}
```

## DATA ASSET

TOPIC NAME	<b>data_assets</b>
DESCRIPTION	Dictionary topic for data assets. The topic is updated when a new Data Asset has been created or a Data Asset has been updated or deleted.
RESPONSE(S)	<pre> {   "type": "UPDATE",   "schemaVersion": "2.1",   "metadata": {     "id": "a8fb62fc-7efa-4dfb-bf8e-7e605e58cd7f",     "name": "data asset name",     "description": "Customers of Europe, North America, Asia",     "sensitivity": "Critical",     "type": "PERSONAL SENSITIVE",     "dataAssetClassificationType":       "CUSTOMER EMPLOYEE ORGANIZATION PARTNER_3RD_PARTY_ORGANIZATION",     "businessRepresentative": {       "firstName": "John",       "lastName": "Connor",       "email": "john.connor@skynet.com"     },     "businessUnit": "businessUnit",     "role": "role",     "reasonsOfProcessing": [       "reason0",       "reason1"     ],   }, } </pre>

```

        "risks": [
            "risk1",
            "risk0"
        ],
        "linkedRootDataAssets": [
            "432017797386076449",
            "432018234453143105",
            "432017797357764833"
        ],
        "linkedTags": [
            "CCPA",
            "Tokenize",
            "Move",
            "LAN"
        ]
    }
}
    
```

**APPLIANCE INFO**

TOPIC NAME	<b>appliance</b>
DESCRIPTION	Topic for appliance ID and Name.
RESPONSE(S)	<pre> {     "schema_version": "1.0",     "applianceId": "bb678077-7506-5919-9a8b-74ec9a45745d",     "applianceDesc": "Test appliance", }                 </pre>

```

"location":{
  "region":{ "type":"AWS","id":"central-west2","zone":"west-c"},
  "address":{"country":"US","area":"NY/...", "city":"NY","zip":"2345"}
}
}

```

## DATA SUBJECT CONFIGURATION

TOPIC NAME	<b>pii_configuration</b>
DESCRIPTION	Topic for configuration for Data Subject entities.
RESPONSE(S)	<pre> {   "schema_version": "1.0",   "available": [     {       "locale": {         "id": "en-US",         "language": "English",         "country": "United States"       },       "entities": [         "BIRTHDAY",         "VEHICLE_NUMBER",         "PASSPORT_NUMBER",         "DRIVER_LICENSE"       ]     }   ], } </pre>

```
{
  "locale": {
    "id": "en-GB",
    "language": "English",
    "country": "United Kingdom"
  },
  "entities": [
    "BIRTHDAY",
    "VEHICLE_NUMBER",
    "PASSPORT_NUMBER",
    "DRIVER_LICENSE"
  ]
},
"configured": {
  "locales": [
    "en-US",
    "en-GB"
  ],
  "entities": [
    {
      "name": "BIRTHDAY",
      "indexed": true
    }, {
      "name": "VEHICLE_NUMBER",
```

```
        "indexed": true
      }, {
        "name": "VEHICLE_TYPE",
        "indexed": false
      }, {
        "name": "EMAIL_ADDRESS",
        "indexed": true
      }, {
        "name": "NATIONAL_ID",
        "indexed": true
      }, {
        "name": "PASSPORT_NUMBER",
        "indexed": true
      }
    ],
    "constraints": [
      [
        "NATIONAL_ID"
      ],
      [
        "PASSPORT_NUMBER"
      ],
      [
        "DRIVER_LICENSE"
      ]
    ]
  ],
```

```
[  
  "TAX_ID"  
],  
[  
  "CC_NUMBER"  
],  
[  
  "GIVEN_NAME",  
  "VEHICLE_NUMBER"  
],  
[  
  "GIVEN_NAME",  
  "PHONE_NUMBER"  
],  
[  
  "GIVEN_NAME",  
  "SURNAME",  
  "BIRTHDAY"  
],  
[  
  "GIVEN_NAME",  
  "SURNAME",  
  "CITY",  
  "STREET_ADDRESS"  
]
```

	<pre>         ]       }     }   } </pre>
--	--

## STATS

TOPIC NAME	<b>stats</b>
DESCRIPTION	Common topic where component may publish stats useful for other components.
RESPONSE(S)	<pre> {   "schema_version": "0.1",   "messageId": "your-app-name_timestamp",   "type": "yourStatisticsType",   "data": [     // any data structure   ] } </pre>

## NAMED ENTITY BUNDLE

TOPIC NAME	<b>named_entity_bundle</b>
DESCRIPTION	List of all data elements locales and matchers.
RESPONSE(S)	<pre> {   "schema_version": "2.0",   "locales": [{     "id": "en-US",     "language": "English", </pre>

```
        "country": "United States"
    }, {
        "id": "en-GB",
        "language": "English",
        "country": "United Kingdom"
    }, .....
],
"matchers": [{
    "id": "onetouch.functions.isAlphabetic"
}, {
    "id": "onetouch.functions.isAlphanumeric"
}, {
    "id": "onetouch.functions.isBrazilBankAccount"
}, {
    "id": "onetouch.functions.maxSize",
    "args": ["uint"],
    "title": "Checks the maximum size of the expression"
}, {
    "id": "onetouch.dictionary.cc_type.en"
}, {
    "id": "onetouch.keywords.cc_type.en"
}, {
    "id": "onetouch.keywords.cc_type.es-mx"
}, {
    "id": "onetouch.keywords.cc_type.iw-il"
```

```
    }, {
      "id": "onetouch.patterns.phone_number.pt-br"
    }, {
      "id": "onetouch.patterns.postcode.en-gb"
    }, {
      "id": "onetouch.patterns.postcode.iw-il"
    }, .....
  ],
  "entity-packs": [{
    "id": "en-GB",
    "entities": [{
      "id": "ACCOUNT_NUMBER",
      "rules": {
        "and": [{
          "or": ["onetouch.keywords.account_num-
ber.en"]
        }, {
          "or": ["onetouch.patterns.account_num-
ber.en"]
        }, {
          "and": ["onetouch.functions.isNumeric", {
            "onetouch.functions.minSize": ["6"]
          }, {
            "onetouch.functions.maxSize": ["26"]
          }
        ]
      }
    }
  ]
}
```

```
        }
      ]
    }
  }, {
    "id": "BIRTHDAY",
    "rules": {
      "and": [{
        "or": ["onetouch.keywords.birthday.en"]
      }, {
        "or": ["onetouch.patterns.date"]
      }, {
        "and": ["onetouch.functions.isAlphanumeric",
          "onetouch.functions.minSize": ["6"]
        ], {
          "onetouch.functions.maxSize": ["17"]
        }
      ]
    }
  }
],
.....
]
```

	<pre> ] } </pre>
--	------------------

## NAMED ENTITY MESSAGE

TOPIC NAME	<b>named_entity_definitions</b>
DESCRIPTION	Data element definition.
RESPONSE (S)	<pre> {   "schema_version": "2.0",   "id": "NATIONAL_ID",   "name": "National ID",   "version": "bd90ac36-b272-478a-a5a0-3d6beb22fadf",   "in_use": true,   "description": "A national identification number, national identity number, or national insurance number is used by the governments of many countries as a means of tracking their citizens, permanent residents, and temporary residents for the purposes of work, taxation, government benefits, health care, and other governmentally-related functions",   "rules": {     "and": [{       "or": ["onetouch.keywords.national_id.en-gb", "custom.keywords.1"]     }], { </pre>

```
        "or": ["onetouch.patterns.national_id.en-gb",
              "custom.patterns.1"]
      }, {
        "or": ["custom.dictionary.1"]
      }, {
        "and": [
          "custom.functions.isNationalId"
        ], {
          "onetouch.functions.minSize": ["9"]
        }, {
          "onetouch.functions.maxSize": ["13"]
        }
      ]
    }
  ],
  "definitions": {
    "keywords": [{
      "id": "custom.keywords.1",
      "content": ["keyword1", "keyword2", "keywordn .. n"],
      "confidence": 80
    }
  ],
  "dictionaries": [{
    "id": "custom.dictionary.1",
```



RESPONSE(S)	<p>Create tag sample message.</p> <pre> {   "schema_version": "0.3",   "tag": {     "id" : "tag1",     "meta": {       "type": "type",       "description": "description"     }   } } </pre>
	<p>Delete tag sample message.</p> <pre> {   "schema_version": "0.3",   "tag": {     "id" : "tag1",     "deleted" : true   } } </pre>

## DISCOVERY CONFIGURATION

TOPIC NAME	<b>discovery_configure</b>
DESCRIPTION	Configuration of the discovery remote module.
RESPONSE(S)	<pre> { </pre>

```
"schema_version": "1.0",

"type": "Configure",

"applianceId": "bb678077-7506-5919-9a8b-74ec9a45745d",

"configurationId": "bb678077-1111-2222-3333-234253432222",

"ts": 12312321324,

"DiscoverySettings": {

  "domainListSettings": [

    {

      "id": 0,

      "domain": "1touch.corp"

    },

    {

      "id": 1,

      "domain": "1touch.io"

    }

  ],

  "ipRangeListSettings": [

    {

      "id": 0,

      "type": "SUBNET",

      "subnet": "1.1.1.1/16",

      "ipFrom": "1.1.0.1",

      "ipTo": "1.1.255.254",

      "networkLocation": "DMZ"

    },

  ],
```

```
{
  "id": 1,
  "type": "IP_RANGE",
  "subnet": "",
  "ipFrom": "10.10.10.1",
  "ipTo": "10.10.10.10",
  "networkLocation": "LAN"
},
"dnsSettings": {
  "primaryDns": "8.8.8.8",
  "secondaryDns": "8.8.8.8",
  "tertiaryDns": "8.8.8.8",
  "domainSearch": null,
  "maxQueries": 10,
  "skipDns": false,
  "queryTimeout": 10
},
"networkTrafficSettings": {
  "typeMechanism": "HARDWARE_ACCELERATED",
  "coreIdMin": 1,
  "coreIdMax": 3,
  "memoryPageSize": 2048,
  "pagesCount": 4096,
  "memoryChannels": 2,
```

```
"snapshotLength": 0,

"mtuSize": 9600,

"capturePool": 400000,

"captureLimit": 200000,

"captureTimeout": 20000,

"maxCaptureFilterSize": 1000,

"ignoreAddresses": [

  ""

],

"additionalDrivers": [

  "librte_pmd_vmxnet3_uio.so",

  "librte_mempool_ring.so"

],

"emulatorPcapPath": "",

"pcapPortsNumber": 1,

"pcapsList": [

  ""

],

},

"interfacesSettings": {

  "interfaces": [

    "41:00.0"

  ]

},

"networkTrafficLogSetting": {
```

```
"driverLogLevel": 1,

"logCategoryInitialization": true,

"logCategoryInitPortsInfo": true,

"logCategoryJNIWraps": true,

"logCategoryEvents": false,

"logCategoryBlacklistPackets": false,

"logCategoryBlacklistConfig": false,

"logCategoryCaptPackets": true,

"logCategoryCaptPacketsEveryPacket": false,

"logCategoryCaptPacketsFiltered": false,

"logCategoryCaptPacketsStatistics": true,

"logCategoryCaptPacketsDiskOps": false,

"logCategoryEal": true,

"logCategoryCaptPacketsSkipped": false,

"logCategoryDebugProtocols": false

},

"networkProtocolsSetting": {

  "smb": true,

  "tns": true,

  "tds": true,

  "http": true,

  "mysql": true,

  "couchbase": true,

  "pgsql": true,

  "cql": true,
```

```

        "tls": true,

        "kafka": true,

        "mongo": true,

        "smtp": true,

        "ftp": true,

        "db2": true,

        "nfs": true,

        "udp": true,

        "ipLogFiltering": "",

        "portLogFiltering": "",

        "protocolLogFiltering": ""

    },

    "startOnBoot": true,

    "productionMode": true,

    "protocolRegistryFile": "protocols-registry.json"

}

}

```

## DISCOVERY COMMAND MESSAGE

TOPIC NAME	<b>discovery_actions</b>
DESCRIPTION	Performing actions on the discovery remote module.
RESPONSE(S)	<pre> {      "schema_version": "1.0",      "type": "Actions",      "applianceId": "bb678077-7506-5919-9a8b-74ec9a45745d", </pre>

```

    "commandId" : "bb678077-1111-2222-3333-234253432222"

    "ts" :

    "command": "Start" / "Stop" / "Bind" / "Unbind"

    "commandArgs": {}

}

```

## DISCOVERY STATUS MESSAGES

TOPIC NAME	<b>discovery_status</b>
DESCRIPTION	Sending from the discovery remote module status and statistics for CM needs.
RESPONSE(S)	<pre> {    "schemaVersion": "1.0",    "type": "Status",    "applianceId": "bb678077-7506-5919-9a8b-74ec9a45745d",    "configurationId": "bb678077-1111-2222-3333-234253432222",    "ts": 12312321324,    "operationMode" : "Running",    "StatisticsAndStatus": {      "uptime": 1011111,      "cycleNumber": 245,      "interfaces": [        {          "interfaceId": 0,          "pci": "80:00.0",          "status": "up",          "state": "binded", </pre>

```
"trafficStats": {  
  
  "rxPacketsTotal": 1231,  
  
  "rxPacketsProcessed": 1000,  
  
  "rxPacketsFiltered": 0,  
  
  "rxBytesTotal": 12314654,  
  
  "rxBytesFiltered": 123456,  
  
  "rxMisses": 3,  
  
  "rxErrors": 0,  
  
  "rxNoBufErrors": 0  
  
},  
  
"discoveredStats": {  
  
  "foundPii": 100,  
  
  "foundRepositories": 10,  
  
  "foundNetworkElement": 1000,  
  
  "foundFiles": 50,  
  
  "sentDocumentForProcessing": 20  
  
}  
  
},  
  
{  
  
  "interface": 1,  
  
  "pci": "80:00.1",  
  
  "status": "down",  
  
  "state": "binded",  
  
  "trafficStats": {  
  
    "rxPacketsTotal": 0,
```

```
"rxPacketsProcessed": 0,  
  
"rxPacketsFiltered": 0,  
  
"rxBytesTotal": 0,  
  
"rxBytesFiltered": 0,  
  
"rxMisses": 0,  
  
"rxErrors": 0,  
  
"rxNoBufErrors": 0  
  
},  
  
"discoveredStats": {  
  
  "foundPii": 100,  
  
  "foundRepositories": 10,  
  
  "foundNetworkElement": 1000,  
  
  "foundFiles": 50,  
  
  "sentDocumentForProcessing": 20  
  
}  
  
},  
  
{  
  
  "interface": 2,  
  
  "pci": "80:00.2",  
  
  "status": "down",  
  
  "state": "unbound",  
  
  "trafficStats": {  
  
    "rxPacketsTotal": 0,  
  
    "rxPacketsProcessed": 0,  
  
    "rxPacketsFiltered": 0,
```

```

        "rxBytesTotal": 0,

        "rxBytesFiltered": 0,

        "rxMisses": 0,

        "rxErrors": 0,

        "rxNoBufErrors": 0

    },

    "discoveredStats": {

        "foundPii": 100,

        "foundRepositories": 10,

        "foundNetworkElement": 1000,

        "foundFiles": 50,

        "sentDocumentForProcessing": 20

    }

}

]

}

}
    
```

### REPOSITORY STATUS

TOPIC NAME	<b>repository_status</b>
DESCRIPTION	Current information about repository from the RM point of view.
RESPONSE(S)	<pre> {      "schema_version": "1.0",      "id": "xxx111222",      "applianceId": "",         </pre>

```
"url": "url",

"type": "Database|Cloud Storage|Cloud Application|Email",

"vendor": "Oracle",

"creationDate": 12234453,

"modified": 3345565,

"origin": "manual|automatic",

"deleted": false,

"lastJob": {

  "id": "",

  "status": "NEW|FAILED|RUNNING...",

  "started": 122334,

  "created": 334455,

  "duration": 333333

},

"tags": [

  {

    "name": "tag1",

    "type": "USER_TAG"

  },

  {

    "name": "tag2",

    "type": "USER_TAG"

  },

  {

    "name": "tag1",
```

	<pre>         "type": "DATA_ASSET_TAG"        }],        "options":[""],        "currentStrategy": "",        "stats": {          "totalScans": 4,          "successfulScans": 4        }      } </pre>
--	---

## DATA SUBJECT CATEGORIES

TOPIC NAME	<b>pii_categories</b>
DESCRIPTION	Storage (CRUD) for data subject categories.
RESPONSE(S)	<pre> {    "schema_version": "1.0",    "deleted": true,    "name": "category name as ID",    "description": "not required category description"  } </pre>

## MARKETPLACE SUBSCRIPTION

TOPIC NAME	<b>marketplace_subscription</b>
DESCRIPTION	Data subject sources and target integration description
RESPONSE(S)	<pre> {    "message": {      "origin": "sources",  </pre>

```
"body": {  
  
  "schema_version": "3.0",  
  
  "id": "552f639947d5ce0d79",  
  
  "type": "Candidate",  
  
  "applianceId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",  
  
  "lut": 1584465351,  
  
  "key": {  
  
    "type": "FS",  
  
    "repositoryId": "552f6399-47d5-ce0d-79bf-841e79fc6b7e",  
  
    "path": "/filestorage/important/file.txt"  
  
  },  
  
  "content": {  
  
    "type": "File",  
  
    "fileType": "xls",  
  
    "meta": {  
  
      "size": 1875412069075701099,  
  
      "owner": "John Dow",  
  
      "lastChanged": "ts",  
  
      "created": "ts"  
  
    },  
  
    "categories": [  
  
      "341jgBsTA4"  
  
    ],  
  
    "enttypes": [  
  
      "NATIONID",
```

```
        "..."  
    ]  
}  
},  
"target": [  
  {  
    "solution": "mip",  
    "action": "alert",  
    "configurations": {  
      "message_syntax": ""  
    }  
  }  
]
```



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