

# Cohesity Imanis Data REST API Guide



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# 1 Overview

This document describes the REST API and resources provided by Talena Inc. The REST APIs are meant for developers who want to integrate Talena software into their application and for administrators who want to script interactions with the Talena software server.

The REST APIs of Talena software provides access to resources (data entities) via URI paths. To use a REST API, your application will make an HTTP request and parse the response. The response format is JSON. Your methods will be the standard HTTP methods like GET, PUT, POST and DELETE. As the REST API is based on open standards, you can use any web development language to access the API.

**This table denotes the current REST API provided by Imanis Data Software:**

ENTITY	OPERATION	METHOD	URL
Data Repositories	(Get All)	GET	/public/api/repositories
	(Get by ID)	GET	/public/api/repositories/:id
Policies	(Get All)	GET	/public/api/policies
	(Get by ID)	GET	/public/api/policies/:id
Backup Jobs	(Get All)	GET	/public/api/backup/jobs
	(Get by ID)	GET	/public/api/backup/jobs/:id
	(Update)	PUT	/public/api/backup/jobs/:id
	(Create)	POST	/public/api/backup/jobs/
	(Delete)	DELETE	/public/api/backup/jobs/:id
	(Run now)	GET	/public/api/backup/jobs/run/:id

ENTITY	OPERATION	METHOD	URL
Mirroring Jobs	(Get All)	GET	/public/api/mirroring/jobs
	(Get by ID)	GET	/public/api/mirroring/jobs/:id
	(Update)	PUT	/public/api/mirroring/jobs/:id
	(Create)	POST	/public/api/mirroring/jobs/
	(Delete)	DELETE	/public/api/mirroring/jobs/:id
	(Run now)	GET	/public/api/mirroring/jobs/run/:id
Restore Jobs	(Create)	POST	/public/api/restore/jobs/
Domains	(Get All)	GET	/public/api/domain

**This table denotes the agents or applications that are supported for each entity:**

ENTITY	HDFS	HIVE	HBASE	CASSANDRA	VERTICA	COUCHBASE
Data Repositories	✓	✓	✓	✓	✓	✓
Backup Jobs	✓	✓	✓	✓	✓	✓
Mirroring Jobs	✓	✓	✓	✓	✓	✓
Restore Jobs	✓	✓	✓	✓	✓	✓

**NOTE:** In the current release, the following agents or applications are NOT supported:

Glacier

S3

Oracle

MongoDB

Azure Data Lake

Azure WASB

## 2 Authentication

Talena supports HTTP Basic authentication (BA) for authenticating the REST HTTP requests.

### 2.1 Request Headers

The request should contain the following headers:

NAME	SAMPLE VALUE	DESCRIPTION
Authorization		HTTP Basic Authentication header
j_domain	Imanis Data	The ID of the Domain to be used for authentication. In case you are using the 'Talena' domain then this value will be 'Talena'
Content-Type		This should be set to "application/json"

### 2.2 Using LDAP Authentication

**In case you wish to use an LDAP domain, then you should perform the following steps:**

1. Use GetAll Domains operations to fetch the list of available domains and their corresponding IDs
2. From the list extract the LDAP Domain and get its ID.
3. Pass this domain ID as the value for the "j\_domain" header.

## 3 Data Repositories

This section describes the REST wrapper for the Data Repositories and provides methods for getting the data repositories information from Talena.

### Get All

**GET**`/public/api/repositories/`**Success: Status Code: 200**

### Sample Response JSON

```
[
  {
    "id": "ffacbcce1_d131_4026_a24e_1c450e85e301",
    "name": "Hadoop DR",
    "description": "",
    "applications": [
      "HIVE",
      "HDFS"
    ]
  },
  {
    "id": "c6206778_3022_487e_9ad1_1df30bfa6a21",
    "name": "Cassandra Production",
    "description": "",
    "applications": [
      "CASSANDRA"
    ]
  },
  {
    "id": "01dc692d_cd94_4c34_b098_7950b7a18a1b",
    "name": "Amazon Cloud Storage",
    "description": "",
    "applications": [
      "S3"
    ]
  },
  {
    "id": "a5d495ba_0977_4d09_8525_c41dc49167e1",
    "name": "Couch_Prod",
    "description": "This is the Production repository",
    "applications": [
      "COUCHBASE"
    ]
  }
]
```

```
    },  
    {  
      "id": "8d24ee1d_d842_4a55_af73_1e4e91345283",  
      "name": "Couch_Stage",  
      "description": "This is the Staging database",  
      "applications": [  
        "COUCHBASE"  
      ]  
    }  
  ]
```



**Get by ID**

GET

`/public/api/repositories/:id`**URL Parameter**

FIELD	TYPE	DESCRIPTION
ID	String	ID of the data repository that we are trying to fetch

**Success: Status Code: 200****Sample Response JSON**

```
{
  "id": "ffacbce1_d131_4026_a24e_1c450e85e301",
  "name": "Hadoop DR",
  "description": "",
  "applications": [
    "HIVE",
    "HDFS"
  ]
}
```

## 4 Policies

This section describes the REST wrapper for Policies.

### Get ALL

**GET**`/public/api/policies`

**Success: Status Code: 200**

### Sample Response JSON

```
{
  "ID": "cf6792bd_7009_4304_b23d_a4f0df9925d0",
  "name": "Policy_Backup1",
  "selectedHours": [],
  "days": [],
  "repeat": 0,
  "type": "BACKUP",
  "retainSnapShot": {
    "value": 3,
    "unit": "DAYS"
  },
  "lifeCycle": {
    "fullReplica": 10,
    "reducedReplica": 0,
    "stubbed": 0,
    "archived": 0,
    "glacier": -1,
    "unit": "DAYS"
  },
}
```

### Get by ID

**GET**`/public/api/policies/:Id`

### URL Parameters

FIELD	TYPE	DESCRIPTION
ID	String	ID of the policy that we are trying to read

**Success: Status Code: 200**

**Sample Response JSON**

```
{
  "ID": "cf6792bd_7009_4304_b23d_a4f0df9925d0",
  "name": "Policy_Backup1",
  "selectedHours": [],
  "days": [],
  "repeat": 0,
  "type": "BACKUP",
  "retainSnapShot": {
    "value": 3,
    "unit": "DAYS"
  },
  "lifeCycle": {
    "fullReplica": 10,
    "reducedReplica": 0,
    "stubbed": 0,
    "archived": 0,
    "glacier": -1,
    "unit": "DAYS"
  },
  "priority": "MEDIUM",
  "owner": "Talena+admin",
  "version": 1,
  "acl": {}
}
```

## 5 Backup Jobs

This section describes the REST wrapper for Backup Jobs and provides methods of creating, modifying, deleting a job and running a job.

### Get All

**GET**`/public/api/backup/jobs`

### Sample JSON Response

```
[
  {
    "repository": "42b621cf_e229_4281_bc23_e7e4645bf752",
    "application": "CASSANDRA",
    "active": true,
    "id": "ca5fc5a3_626e_44b6_9d98_2f99c21d2b84",
    "tag": "Cassandra Hourly Backup",
    "description": "",
    "objects": [
      {
        "path": [
          "human resource"
        ],
        "type": "NODE",
        "maskingOptions": []
      },
      {
        "path": [
          "legal"
        ],
        "type": "NODE",
        "maskingOptions": []
      },
      {
        "path": [
          "purchasing"
        ],
        "type": "NODE",
        "maskingOptions": []
      }
    ],
    "policy": "d74047f7_1dc4_4c85_98a9_4ad31bb449f5"
  },
  {
    "repository": "e4ed089c_742e_4619_b431_68e351a14d77",
```

```
{
  "application": "HIVE",
  "active": true,
  "id": "72b46512_0f4a_4aee_9f7a_1063b258e05d",
  "tag": "Hive Hourly Backup",
  "description": "",
  "objects": [
    {
      "path": [
        "sales"
      ],
      "type": "NODE",
      "maskingOptions": []
    },
    {
      "path": [
        "payroll"
      ],
      "type": "NODE",
      "maskingOptions": []
    },
    {
      "path": [
        "legal"
      ],
      "type": "NODE",
      "maskingOptions": []
    }
  ],
  "policy": "d74047f7_1dc4_4c85_98a9_4ad31bb449f5"
}
```

### Get by ID

**GET****/public/api/backup/jobs/:id**

### URL Parameters

FIELD	TYPE	DESCRIPTION
ID	String	ID of the backup job that we are trying to read

**Success: Status Code: 200**

**Sample JSON Response**

```
{
  "repository": "c6206778_3022_487e_9ad1_1df30bfa6a21",
  "application": "CASSANDRA",
  "active": true,
  "id": "292e6f19_34a0_42ec_9100_18b5b3520355",
  "tag": "CASS_CLOUD",
  "description": "This is a Cassandra Cloud policy",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
      "maskingOptions": []
    },
    {
      "path": [
        "sales",
        "orders"
      ],
      "type": "LEAF",
      "maskingOptions": []
    },
    {
      "path": [
        "sales",
        "transactions"
      ],
      "type": "LEAF",
      "maskingOptions": []
    },
    {
      "path": [
        "sales",
        "sales_reps"
      ],
      "type": "LEAF",
      "maskingOptions": []
    }
  ],
  "policy": "05deb0e6_cac8_4fb1_9127_4c8d98f1848c",
  "cloudInfo": {
    "cloudDSId": "01dc692d_cd94_4c34_b098_7950b7a18a1b",
```

```

    "bucketName": "cassandra_dev_backup"
  }
}

```

**Update**

PUT

/public/api/backup/jobs/:id

**URL Parameters**

FIELD	TYPE	DESCRIPTION
ID	String	ID of the backup job which is getting updated.

**Request BODY Parameters**

FIELD	CONSTRAINTS	DESCRIPTION
repository	Mandatory. Should be the ID of an existing Data repository	The data repository from which data has to be backed up.
application	Mandatory	Type of application. For example, "Vertica"
id	Mandatory. Should be the ID of an existing Backup Job.	The id of the job which has to be updated.
tag	Mandatory	A unique tag for that job.
description	Optional	
objects	Mandatory	Parent tag of objects which have to be backed up. Please refer to following rows for details.
objects.path	Mandatory	The full path upto the object
objects.type	Mandatory. Must be one of LEAF OR NODE	Set this to NODE for parent objects like schema or namespace. Set this to LEAF for child objects like Table.

FIELD	CONSTRAINTS	DESCRIPTION
objects.objectType	Optional	Must be set to application specific value like "SCHEMA" or "TABLE"
policy	Mandatory	Should be the ID of an existing policy that will be applied to this job.
inclusionsRegex	Optional	Regular expression for selecting objects to be included in the backup
exclusionsRegex	Optional	Regular expression for selecting objects to be excluded from the backup.
cloudInfo	Optional	Parent tag for cloud options.
cloudInfo.cloudDSId	Optional	Cloud repository ID in case of a cloud policy is applied to this job.
cloudInfo.bucketName	Optional	Cloud bucket name in case of a cloud policy is applied to this job
captureDataCenters	Optional	Comma separated string having list of Data Centers associated with this job.

**Request BODY JSON**

```
{
  "repository": "c6206778_3022_487e_9ad1_1df30bfa6a21",
  "application": "CASSANDRA",
  "active": true,
  "id": "292e6f19_34a0_42ec_9100_18b5b3520355",
  "tag": "CASS_CLOUD",
  "description": "This is a Cassandra Cloud policy",
  "objects": [
    {
```



```
{
  "path": [
    "sales",
    "customers"
  ],
  "type": "LEAF",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "orders"
  ],
  "type": "LEAF",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "transactions"
  ],
  "type": "LEAF",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "sales_reps"
  ],
  "type": "LEAF",
  "maskingOptions": []
}
],
"policy": "05deb0e6_cac8_4fb1_9127_4c8d98f1848c",
"cloudInfo": {
  "cloudDSId": "01dc692d_cd94_4c34_b098_7950b7a18a1b",
  "bucketName": "cassandra_dev_backup"
},
"captureDataCenters" : "HKDC, CHNDC"
}
```

**Success: Status Code: 200**

**Error:** Please refer to the error responses section.

#### Success Response

Response will be the complete JSON structure that is sent in the request.

## Create

POST

/public/api/backup/jobs

**Request BODY Parameters**

FIELD	CONSTRAINTS	DESCRIPTION
repository	Mandatory. Should be the ID of an existing Data repository	The datasource from which data has to be backed up.
application	Mandatory	Type of application. For example, "Vertica"
id		This attribute should not be specified for the Create operation.
tag	Mandatory	A unique tag for that job.
description	Optional	
objects	Mandatory	Parent tag of objects which have to be backed up. Please refer to following rows for details.
objects.path	Mandatory	The full path upto the object
objects.type	Mandatory. Must be one of LEAF OR NODE	Set this to NODE for parent objects like schema or namespace. Set this to LEAF for child objects like Table.
objects.objectType	Optional	Must be set to application specific value like "SCHEMA" or "TABLE"
policy	Mandatory	Should be the ID of an existing policy that will be applied to this job.

FIELD	CONSTRAINTS	DESCRIPTION
inclusionsRegex	Optional	Regular expression for selecting objects to be included in the backup
exclusionsRegex	Optional	Regular expression for selecting objects to be excluded from the backup.
cloudInfo	Optional	Parent tag for cloud options.
cloudInfo.cloudDSId	Optional	Cloud repository ID in case of a cloud policy is applied to this job.
cloudInfo.bucketName	Optional	Cloud bucket name in case of a cloud policy is applied to this job
captureDataCenters	Optional	Comma separated string having list of Data Centers associated with this job.
emailReceiverOption	Mandatory	Email ID of the receiver who will get the email.
emailIds	Optional only when emailReceiverOption value is NONE	Email ID separated with commas.

**REQUEST BODY JSON**

```
{
  "repository": "c01db4b0_9667_43ba_8aa8_9fb75469dc3e",
  "application": "CASSANDRA",
  "active": true,
  "id": "6bca4d16_0b99_4a23_aad5_f43dd0a1311d",
  "tag": "cass_api_test",
  "description": "api_testing",
  "objects": [
    {
      "path": [
```

```

"anirban_6",
"tab1"
],
"type": "LEAF",
"maskingOptions": [],
"recoveryOptions": {
"renameTo": ""
}
},
{
"path": [
"anirban_6",
"tab3"
],
"type": "LEAF",
"maskingOptions": [],
"recoveryOptions": {
"renameTo": ""
}
}
],
"policy": "53f0b4c9_92ed_487f_967b_56293429b657",
"captureDataCenters": "dc1,dc2",
"emailIds": "",
"emailReceiverOption": "NONE"
}

```

### RESPONSE BODY JSON

Response will be the complete JSON Structure shown above with the jobID set to the ID of the newly created job.

**Success: Status Code: 200**

**Error: Please refer to the error responses section.**

### Run Now

GET

/public/api/backup/jobs/run/:id

### URL Parameter

FIELD	TYPE	DESCRIPTION
ID	String	ID of the job to be run

**Success: Status Code: 200**

**Delete****DELETE**`/public/api/backup/jobs/run/:id`**URL Parameter**

FIELD	TYPE	DESCRIPTION
ID	String	ID of the job to be deleted

**Success: Status Code: 200****REQUEST BODY JSON**

```
{
  "status": "true",
  "statusMessage": "Job deleted successfully"
}
```

## 6 Mirroring Jobs

This section describes the REST wrapper for Mirroring Jobs and provides methods of creating, modifying, running and deleting a mirroring job.

### Get All

**GET**`/public/api/mirroring/jobs`

### Sample JSON Response

**Success: Status Code: 200**

```
[
  {
    "sourceRepository": "42b621cf_e229_4281_bc23_e7e4645bf752",
    "application": "CASSANDRA",
    "active": true,
    "id": "62ad1597_b367_4278_bec4_0cb31de206e4",
    "tag": "Cassandra Mirroring ",
    "description": "",
    "objects": [
      {
        "path": [
          "sales",
          "customers"
        ],
        "type": "LEAF",
        "sampling": "80",
        "maskingOptions": [
          {
            "maskColumnName": "customer_id",
            "maskType": "NONE"
          },
          {
            "maskColumnName": "full_name",
            "maskType": "FULLNAME"
          },
          {
            "maskColumnName": "employee_id",
            "maskType": "NONE"
          },
          {
            "maskColumnName": "tax_id",
            "maskType": "TIN"
          }
        ]
      }
    ]
  }
]
```

```

    },
    {
      "maskColumnName": "ssn",
      "maskType": "NONE"
    }
  ]
},
{
  "path": [
    "sales",
    "orders"
  ],
  "type": "LEAF",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "transactions"
  ],
  "type": "LEAF",
  "sampling": "80",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "sales_reps"
  ],
  "type": "LEAF",
  "sampling": "70",
  "maskingOptions": [
    {
      "maskColumnName": "name ",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "address",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "ssn",
      "maskType": "SSN"
    },
    {
      "maskColumnName": "ein",
      "maskType": "NONE"
    }
  ]
},

```

```
        {
          "maskColumnName": "tin",
          "maskType": "NONE"
        }
      ]
    }
  ],
  "inclusionsRegex": "",
  "exclusionsRegex": "",
  "policy": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "targetRepository": "b02d5ea5_424c_471a_a84e_8ecc7d85fc51"
},
{
  "sourceRepository": "6fafae37_d89c_48ae_912f_0d91976bd444",
  "application": "VERTICA",
  "active": true,
  "id": "06d737ed_88f3_4015_a189_e950a4fae999",
  "tag": "Vertica Production To Analytics",
  "description": "",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
      "sampling": "90",
      "maskingOptions": []
    },
    {
      "path": [
        "sales",
        "orders"
      ],
      "type": "LEAF",
      "sampling": "90",
      "maskingOptions": [
        {
          "maskColumnName": "ip",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "uid",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "uname",
          "maskType": "FULLNAME"
        }
      ]
    }
  ]
}
```



```

    },
    {
      "maskColumnName": "ts",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "timezone",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "request_type",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "request_location",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "request_protocol",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "http_status",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "object_size",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "dt",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "hr",
      "maskType": "NONE"
    }
  ]
},
{
  "path": [
    "sales",
    "transactions"
  ],
  "type": "LEAF",
  "sampling": "80",
  "maskingOptions": [
    {

```

```

        "maskColumnName": "txn_id ",
        "maskType": "NONE"
    },
    {
        "maskColumnName": "cust_name ",
        "maskType": "NONE"
    },
    {
        "maskColumnName": "cust_ccn",
        "maskType": "CCN"
    },
    {
        "maskColumnName": "txn_amt",
        "maskType": "NONE"
    }
]
},
{
    "path": [
        "sales",
        "sales_reps"
    ],
    "type": "LEAF",
    "maskingOptions": [
        {
            "maskColumnName": "name ",
            "maskType": "FULLNAME"
        },
        {
            "maskColumnName": "address",
            "maskType": "NONE"
        },
        {
            "maskColumnName": "ssn",
            "maskType": "NONE"
        },
        {
            "maskColumnName": "ein",
            "maskType": "EIN"
        },
        {
            "maskColumnName": "tin",
            "maskType": "NONE"
        }
    ]
}
},
{
    "path": [

```

```
        "legal"
      ],
      "type": "NODE",
      "maskingOptions": []
    },
    {
      "path": [
        "purchasing"
      ],
      "type": "NODE",
      "maskingOptions": []
    }
  ],
  "inclusionsRegex": "",
  "exclusionsRegex": "",
  "policy": "6fafae37_d89c_48ae_912f_0d91976bd444",
  "targetRepository": "b3337b2a_34e7_4290_a2dc_20e70e2ee687"
},
{
  "sourceRepository": "e4ed089c_742e_4619_b431_68e351a14d77",
  "application": "HIVE",
  "active": true,
  "id": "58ae53f8_d494_47d5_ab25_bc428b2b3dc7",
  "tag": "Hive Mirroring",
  "description": "",
  "objects": [
    {
      "path": [
        "sales"
      ],
      "type": "NODE",
      "maskingOptions": []
    },
    {
      "path": [
        "payroll"
      ],
      "type": "NODE",
      "maskingOptions": []
    },
    {
      "path": [
        "legal"
      ],
      "type": "NODE",
      "maskingOptions": []
    }
  ]
},
],
```

```
{
  "inclusionsRegex": "",
  "exclusionsRegex": "",
  "policy": "e4ed089c_742e_4619_b431_68e351a14d77",
  "targetRepository": "d74047f7_1dc4_4c85_98a9_4ad31bb449f5"
}
```

### Get by ID

**GET****/public/api/mirroring/jobs/:id**

### URL Parameters

FIELD	TYPE	DESCRIPTION
ID	String	ID of the mirroring job that we are trying to read

**Success: Status Code: 200**

### Sample JSON Response

```
{
  "sourceRepository": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "application": "CASSANDRA",
  "active": true,
  "id": "62ad1597_b367_4278_bec4_0cb31de206e4",
  "tag": "Cassandra Mirroring ",
  "description": "",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
      "sampling": "80",
      "maskingOptions": [
        {
          "maskColumnName": "customer_id",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "full_name",
          "maskType": "FULLNAME"
        }
      ]
    }
  ]
}
```

```
{
  "maskColumnName": "employee_id",
  "maskType": "NONE"
},
{
  "maskColumnName": "tax_id",
  "maskType": "TIN"
},
{
  "maskColumnName": "ssn",
  "maskType": "NONE"
}
]
},
{
  "path": [
    "sales",
    "orders"
  ],
  "type": "LEAF",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "transactions"
  ],
  "type": "LEAF",
  "sampling": "80",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "sales_reps"
  ],
  "type": "LEAF",
  "sampling": "70",
  "maskingOptions": [
    {
      "maskColumnName": "name ",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "address",
      "maskType": "NONE"
    }
  ],
  {
```

```

        "maskColumnName": "ssn",
        "maskType": "SSN"
    },
    {
        "maskColumnName": "ein",
        "maskType": "NONE"
    },
    {
        "maskColumnName": "tin",
        "maskType": "NONE"
    }
]
},
"inclusionsRegex": "",
"exclusionsRegex": "",
"policy": "42b621cf_e229_4281_bc23_e7e4645bf752",
"targetRepository": "b02d5ea5_424c_471a_a84e_8ecc7d85fc51"
}

```

## Update

PUT

/public/api/mirroring/jobs/:id

## Request BODY Parameters

FIELD	CONSTRAINTS	DESCRIPTION
sourceRepository	Mandatory. Should be the ID of an existing Data repository	The data repository from which data has to be backed up.
application	Mandatory	Type of application. For example, "Vertica"
id	Mandatory. Should be the ID of an existing Backup Job.	The id of the job which has to be updated.
tag	Mandatory	A unique tag for that job.
description	Optional	

FIELD	CONSTRAINTS	DESCRIPTION
objects	Mandatory	Parent tag of objects which have to be mirrored. Please refer to following rows for details.
objects.path	Mandatory	The full path upto the object
objects.type	Mandatory. Must be one of LEAF OR NODE	Set this to NODE for parent objects like schema or namespace. Set this to LEAF for child objects like Table.
objects.objectType	Optional	Must be set to application specific value like "SCHEMA" or "TABLE"
policy	Mandatory	Should be the ID of an existing policy that will be applied to this job.
inclusionsRegex	Optional	Regular expression for selecting objects to be included in the mirroring
exclusionsRegex	Optional	Regular expression for selecting objects to be excluded from the mirroring.
cloudInfo	Optional	Parent tag for cloud options.
cloudInfo.cloudDSId	Optional	Cloud repository ID in case of a cloud policy is applied to this job.
cloudInfo.bucketName	Optional	Cloud bucket name in case of a cloud policy is applied to this job

FIELD	CONSTRAINTS	DESCRIPTION
captureDataCenters	Optional	Comma separated string having list of Data Centers associated with this job.
targetRepository	Mandatory	A unique identifier of a data repository (target)
overwriteObjects	Boolean	Set this to true if we want mirroring to overwrite objects
targetSuffix	Optional	Specify the suffix that will get applied to all objects during this mirror operation.
objects.sampling	Mandatory. Must be a number between 10 and 100	Number of objects to be sampled into the mirrored repository.
objects.maskingOptions	Optional.	Parent tag for the column wise masking
objects-maskingOptions-maskColumnName	Mandatory	Column name to be masked
objects-maskingOptions-maskType	Must be one of NONE, CCN, TIN, SSN, EIN, PHONE, FULLNAME, NUMBER, EMAIL	The type of mask to be applied to this column
objects- recoveryOptions	Optional	Specify additional options for mirroring.
objects- recoveryOptions- renameTo	Optional	Specify the new name with which this object should be recovered.
objects-recoveryOptions-properties	Optional	Specify the properties to be applied to the objects being recovered



FIELD	CONSTRAINTS	DESCRIPTION
captureDataCenters	Optional	Comma separated string having list of Data Centers associated with the capture arm of this mirror job.
restoreDataCenters	Optional	Comma separated string having list of Data Centers associated with the recovery arm of this mirror job.

---

### Sample Request JSON

#### Example 1 - Simple Mirroring Request

This example shows a simple mirroring request without sampling or masking.

```
{
  "sourceRepository": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "application": "CASSANDRA",
  "active": true,
  "id": "62ad1597_b367_4278_bec4_0cb31de206e4",
  "tag": "Cassandra Mirroring ",
  "description": "",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
    },
    {
      "path": [
        "sales",
        "orders"
      ],
      "type": "LEAF"
    },
    {
      "path": [
        "sales",
        "transactions"
      ]
    }
  ]
}
```

```
    ],
    "type": "LEAF"
  },
  {
    "path": [
      "sales",
      "sales_reps"
    ],
    "type": "LEAF"
  }
],
"policy": "42b621cf_e229_4281_bc23_e7e4645bf752",
"targetRepository": "b02d5ea5_424c_471a_a84e_8ecc7d85fc51"
}
```

---

### Example 2 - Mirroring Request with Sampling, Masking and Restore options

This example shows a simple mirroring request without sampling or masking.

```
{
  "sourceRepository": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "application": "CASSANDRA",
  "active": true,
  "id": "62ad1597_b367_4278_bec4_0cb31de206e4",
  "tag": "Cassandra Mirroring ",
  "description": "",
  "overwriteObjects": false,
  "targetSuffix": "_bk",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
      "sampling": "80",
      "maskingOptions": [
        {
          "maskColumnName": "customer_id",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "full_name",
          "maskType": "FULLNAME"
        }
      ]
    }
  ]
}
```

```

        {
          "maskColumnName": "employee_id",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "tax_id",
          "maskType": "TIN"
        },
        {
          "maskColumnName": "ssn",
          "maskType": "NONE"
        }
      ],
      "recoveryOptions": {
        "renameTo": "sales.customers_001",
        "properties": {
          "compaction": "true"
        }
      }
    },
    {
      "path": [
        "sales",
        "orders"
      ],
      "type": "LEAF",
      "maskingOptions": []
    },
    {
      "path": [
        "sales",
        "transactions"
      ],
      "type": "LEAF",
      "sampling": "80",
      "maskingOptions": []
    },
    {
      "path": [
        "sales",
        "sales_reps"
      ],
      "type": "LEAF",
      "sampling": "70",
      "maskingOptions": [
        {
          "maskColumnName": "name ",
          "maskType": "NONE"
        }
      ]
    }
  ]
}

```

```
    },
    {
      "maskColumnName": "address",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "ssn",
      "maskType": "SSN"
    },
    {
      "maskColumnName": "ein",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "tin",
      "maskType": "NONE"
    }
  ]
}
],
"inclusionsRegex": "",
"exclusionsRegex": "",
"policy": "42b621cf_e229_4281_bc23_e7e4645bf752",
"targetRepository": "b02d5ea5_424c_471a_a84e_8ecc7d85fc51",
"repository": "42b621cf_e229_4281_bc23_e7e4645bf752"
}
```

---

**Success: Status Code: 200**

## Response

Response will be the complete JSON Structure shown above with the jobID set to the ID of the newly created job.

**Success: Status Code: 200**

**Error: Please refer to the error responses section.**

## Create

**POST****/public/api/mirroring/jobs**

## Request BODY Parameters

FIELD	CONSTRAINTS	DESCRIPTION
sourceRepository	Mandatory. Should be the ID of an existing Data repository	The data repository from which data has to be mirrored up.
application	Mandatory	Type of application. For example, "Vertica"
id	NA	This attribute need not be part of the request for the create operation.
tag	Mandatory	A unique tag for that job.
description	Optional	
objects	Mandatory	Parent tag of objects which have to be mirrored. Please refer to following rows for details.
objects.path	Mandatory	The full path upto the object
objects.type	Mandatory. Must be one of LEAF OR NODE	Set this to NODE for parent objects like schema or namespace. Set this to LEAF for child objects like Table.

FIELD	CONSTRAINTS	DESCRIPTION
objects.objectType	Optional	Must be set to application specific value like "SCHEMA" or "TABLE"
policy	Mandatory	Should be the ID of an existing policy that will be applied to this job.
inclusionsRegex	Optional	Regular expression for selecting objects to be included in the mirroring
exclusionsRegex	Optional	Regular expression for selecting objects to be excluded from the mirroring.
cloudInfo	Optional	Parent tag for cloud options.
cloudInfo.cloudDSId	Optional	Cloud repository ID in case of a cloud policy is applied to this job.
cloudInfo.bucketName	Optional	Cloud bucket name in case of a cloud policy is applied to this job
captureDataCenters	Optional	Comma separated string having list of Data Centers associated with this job.
targetRepository	Mandatory	A unique identifier of a data repository (target)
overwriteObjects	Boolean	Set this to true if we want mirroring to overwrite objects
targetSuffix	Optional	Specify the suffix that will get applied to all objects during this mirror operation.

FIELD	CONSTRAINTS	DESCRIPTION
objects.sampling	Mandatory. Must be a number between 10 and 100	Number of objects to be sampled into the mirrored repository.
objects.maskingOptions	Optional.	Parent tag for the column wise masking
objects-maskOptions-maskColumnName	Mandatory	Column name to be masked
objects-maskOptions-maskType	Must be one of NONE, CCN, TIN, SSN, EIN, PHONE, FULLNAME, NUMBER, EMAIL	The type of mask to be applied to this column
objects- recoveryOptions	Optional	Specify additional options for mirroring.
objects- recoveryOptions- renameTo	Optional	Specify the new name with which this object should be recovered.
objects-recoveryOptions- properties	Optional	Specify the properties to be applied to the objects being recovered
captureDataCenters	Optional	Comma separated string having list of Data Centers associated with the capture arm of this mirror job.
restoreDataCenters	Optional	Comma separated string having list of Data Centers associated with the recovery arm of this mirror job.

**REQUEST BODY JSON**

### Example 1 - Simple Mirroring Request

This example shows a simple mirroring request without sampling or masking.

#### Sample Request JSON

```
{
  "sourceRepository": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "application": "CASSANDRA",
  "active": true,
  "tag": "Cassandra Mirroring ",
  "description": "",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
    },
    {
      "path": [
        "sales",
        "orders"
      ],
      "type": "LEAF"
    },
    {
      "path": [
        "sales",
        "transactions"
      ],
      "type": "LEAF"
    },
    {
      "path": [
        "sales",
        "sales_reps"
      ],
      "type": "LEAF"
    }
  ],
  "policy": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "targetRepository": "b02d5ea5_424c_471a_a84e_8ecc7d85fc51"
}
```



**Example 2 - Mirroring Request with Sampling, Masking and Restore options**

This example shows a simple mirroring request without sampling or masking.

```
{
  "sourceRepository": "42b621cf_e229_4281_bc23_e7e4645bf752",
  "application": "CASSANDRA",
  "active": true,
  "tag": "Cassandra Mirroring ",
  "description": "",
  "overwriteObjects": false,
  "targetSuffix": "_bk",
  "objects": [
    {
      "path": [
        "sales",
        "customers"
      ],
      "type": "LEAF",
      "sampling": "80",
      "maskingOptions": [
        {
          "maskColumnName": "customer_id",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "full_name",
          "maskType": "FULLNAME"
        },
        {
          "maskColumnName": "employee_id",
          "maskType": "NONE"
        },
        {
          "maskColumnName": "tax_id",
          "maskType": "TIN"
        },
        {
          "maskColumnName": "ssn",
          "maskType": "NONE"
        }
      ],
      "recoveryOptions": {
        "renameTo": "sales.customers_001",
        "properties": {
          "compaction": "true"
        }
      }
    },
  ],
}
```

```
{
  "path": [
    "sales",
    "orders"
  ],
  "type": "LEAF",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "transactions"
  ],
  "type": "LEAF",
  "sampling": "80",
  "maskingOptions": []
},
{
  "path": [
    "sales",
    "sales_reps"
  ],
  "type": "LEAF",
  "sampling": "70",
  "maskingOptions": [
    {
      "maskColumnName": "name ",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "address",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "ssn",
      "maskType": "SSN"
    },
    {
      "maskColumnName": "ein",
      "maskType": "NONE"
    },
    {
      "maskColumnName": "tin",
      "maskType": "NONE"
    }
  ]
}
```

```
],
"inclusionsRegex": "",
"exclusionsRegex": "",
"policy": "42b621cf_e229_4281_bc23_e7e4645bf752",
"targetRepository": "b02d5ea5_424c_471a_a84e_8ecc7d85fc51",
"repository": "42b621cf_e229_4281_bc23_e7e4645bf752"
}
```

**Success: Status Code: 200**

**Error: Please refer to the error responses section.**

#### Run Now

**GET**`/public/api/backup/jobs/run/:id`

#### URL Parameter

FIELD	TYPE	DESCRIPTION
ID	String	ID of the job to be run.

**Success: Status Code: 200**

#### Delete

**DELETE**`/public/api/backup/jobs/run/:id`

#### URL Parameter

FIELD	TYPE	DESCRIPTION
ID	String	ID of the job to be deleted.

**Success: Status Code: 200**

#### REQUEST BODY JSON

```
{
  "status": "true",
  "statusMessage": "Job deleted successfully"
}
```

## 7 Restore Jobs

This section describes the REST wrapper for the Restore jobs.

### Create

**POST**`/public/api/backup/jobs`

This API allows creation of Restore job given the object name to be restored and the JobTag where the object was backed up to Talena. The Restore job will automatically run immediately after successful creation.

#### Limitations:

This API will restore the latest revision only. Restore from previous revisions is not supported. This is currently supported for application types Cassandra, HBase and Couchbase only.

#### Request BODY Parameters

FIELD	CONSTRAINTS	DESCRIPTION
repository	Mandatory. Should be the ID of an existing Data repository	The datasource from which data has to be backed up.
application	Mandatory	Type of application. For example, "Vertica"
id		This attribute should not be specified for the Create operation.
tag	Mandatory	A unique tag for that job.
description	Optional	-
recoverJobtag	Mandatory	The jobTag from which you wish to recover data
recoverObject	Mandatory	The fully qualified name of the object you wish to recover in the format <NODE>.<LEAF>

FIELD	CONSTRAINTS	DESCRIPTION
recoverObjectType	Mandatory	Should be set to NODE for databases, schemas, namespaces. Set to LEAF otherwise.
overwriteObjects	Boolean	Set this to true if we want restore job to overwrite objects
targetSuffix	Optional	Specify the suffix that will get applied to all objects during this operation.
recoveryOptions	Optional	Specify additional options for the restore job.
recoveryOptions- renameTo	Optional	Specify the new name with which this object should be recovered.
recoveryOptions- properties	Optional	Specify the properties to be applied to the objects being recovered
tag	Mandatory	A unique tag for that job.
description	Optional	-
recoverJobtag	Mandatory	The jobTag from which you wish to recover data

#### REQUEST BODY JSON

```
{
  "sourceRepository": "751a6877_e7ae_40aa_a1c9_74c9fbb1dd05",
  "application": "CASSANDRA",
  "tag": "Integtest_CASS_Restore",
  "description" : "This is to recover Cassandra data",
  "recoverJobtag": "CASS_Table_OnDemand",
  "recoverObject": "KRYO.users",
```

```
"recoverObjectType": "LEAF",
"overwriteObjects": true,
"targetSuffix" : "rest",
"targetRepository": "b895e630_46dd_40e5_a958_6cfca56b4277",
  "recoveryOptions": {
    "properties": {
      "replication" : "{ 'class': 'NetworkTopologyStrategy', 'us-
east_1': '3' }",
      "compaction" : true
    },
    "renameTo": "KRYO.users_ren"
  }
}
```

**RESPONSE BODY JSON**

Response will be the complete JSON Structure shown above with the jobID set to the ID of the newly created job.

**Success: Status Code: 200**

**Error : Please refer to the error responses section.**

## 8 Domains

This section describes the REST wrapper for the Domains.

### Get All

**GET**`/public/api/domain/`

## 9 Error Responses

This section describes the REST services may throw the following types of error responses

### Malformed Request

**Status Code: 400**

**Error Response JSON**

```
{
  "errors": [
    {
      "type":
"org.springframework.http.converter.HttpMessageNotReadableException",
      "code": "VALERR001",
      "message": "Invalid Request - Invalid Content-type",
      "exceptionStack": null
    }
  ]
}
```

### Authentication Failed

**Status Code: 401**

**Error Response JSON**

```
{
  "errors": [
    {
      "type":
"org.springframework.security.authentication.BadCredentialsException",
      "code": "AUTHERR001",
      "message": "Wrong id/password",
      "exceptionStack": null
    }
  ]
}
```



**Input Validation failed****Status Code: 400****Error Response JSON**

```
{
  "errors": [
    {
      "type": "com.talena.publicapi.exception.APIInputValidationException",
      "code": "VALERR101",
      "message": "Field datasourceID cannot be empty",
      "exceptionStack": null
    },
    {
      "type": "com.talena.publicapi.exception.APIInputValidationException",
      "code": "VALERR103",
      "message": "Field policyID cannot be empty",
      "exceptionStack": null
    }
  ]
}
```

**Internal Server Error****Status Code: 500****Error Response JSON**

```
{
  "errors": [
    {
      "type": "java.lang.Exception",
      "code": "",
      "message": "Internal Server Error occurred",
      "exceptionStack": null
    }
  ]
}
```

## 10 Glossary

This section describes the various conventions and status codes mentioned in this guide.

### 10.1 Conventions

- Client - Client application.
- Status - HTTP status code of response.
- All the possible responses are listed under 'Responses' for each method. Only one of them is issued per request server.
- All responses are in JSON format.
- All request parameters are mandatory unless explicitly marked as (optional)

### 10.2 Status Codes

All status codes are standard HTTP status codes. The following are used in this API.

STATUS CODE	DESCRIPTION
200	OK
201	Created
202	Accepted (Request accepted, and queued for execution)
302	URL redirection
400	Bad request
401	Authentication failure
403	Forbidden
404	Resource not found
405	Method Not Allowed
409	Conflict

STATUS CODE	DESCRIPTION
412	Precondition Failed
413	Request Entity Too Large
500	Internal Server Error
501	Not Implemented
503	Service Unavailable
504	Server Error

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## ABOUT COHESITY

Cohesity makes your data work for you by consolidating secondary storage silos onto a hyperconverged, web-scale data platform that spans both private and public clouds. Enterprise customers begin by radically streamlining their backup and data protection, then converge file and object services, test/dev instances, and analytic functions to provide a global data store. Cohesity counts many Global 1000 companies and federal agencies among its rapidly growing customer base and was named to Forbes' "Next Billion-Dollar Startups 2017," LinkedIn's "Startups: The 50 Industry Disruptors You Need to Know Now," and CRN's "2017 Emerging Vendors in Storage" lists.

For more information, visit our [website](#) and [blog](#), follow us on [Twitter](#) and [LinkedIn](#) and like us on [Facebook](#).

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