

RESTful APIs (Representation State Transfer)

Warning

This page is work-in-progress. This is a proposed api which most likely is going to change.

REST

REST is an architectural style for designing loosely coupled applications over HTTP which was coined by [Rob Fielding](#) in 2000. We will define services according to [REST](#).

All REST APIs should be versioned.

`/api/v1/resource`

Resources

A resource is a thing that the service knows about. A resource in a system should have only one logical URI and that should provide a way to fetch related or additional data.

Platform service

Data service to store data for apps, metadata for production services

Resources: Instance, Service, ServiceOwner, Schema, Model

Instance (Service instance)

An service instance is created when a instance onwer starts a workflow in an Altinn application. An instance replaces Altinn2 Message. An instanceOwner is a person/company that reports information via Altinn. An applicationId refers to the application information which defines the metadata about the service.

```
{
  "id": "762011d1-d341-4c0a-8641-d8a104e83d30",
  "applicationId": "KNS/sailor",
  "applicationOwnerId": "KNS",
  "instanceOwnerId": "666",
  "createdDateTime": "2019-03-06T13:46:48.6882148+01:00",
  "createdBy": "XXX",
  "lastChangedDateTime": "2019-03-07T23:59:49+01:00",
  "lastChangedBy": "XXX",
  "dueDateTime": null,
  "visibleDateTime": null,
  "presentationField": "Færder påmelding 2019",
  "externalSystemReference": null,
  "currentWorkflowStep": "started",
  "isCompleted": true,
  "isDeleted": [{
    "deletionDateTime": "2017-12-22",
    "deletedBy": "KNS"
  }],
  "applicationOwnerFeedback": {
    "receivedDate": "2019-05-11T03:00:23+01:00",
    "status": "OK"
  },
  "data": {
    "boatdata": {
      "762011d1-d341-4c0a-8641-d8a104e83d30": {
        "contentType": "application/json",
        "storageUrl": "KNS/sailor/762011d1-d341-4c0a-8641-d8a104e83d30/data/boatdata/992011d1-d341-4c0a-8641-d8a104e83d30",
        "fileName": "davidsyacht.json",
        "createdDateTime": "2019-03-06T15:00:23+01:00",
        "createdBy": "XXX",
        "signature": "oajviojoi2j3l23889yv8js909u293840zz092u3",
        "fileSize": 2003,
        "isLocked": true
      },
      "crewlist": {
        "999911d1-d341-4c0a-8641-d8a104e83d30": {
```

```

        "contentType": "text/xml",
        "storageUrl": "KNS/sailor/762011d1-d341-4c0a-8641-d8a104e83d30/data/crewlist/999911d1-d341-4c0a-8641-
d8a104e83d30",
        "fileName": "crewList.xml",
        "createdDateTime": "2019-03-07T23:59:49+01:00",
        "createdBy": "XXX",
        "lastChangedDateTime": "2019-03-10T23:59:49+01:00",
        "lastChangedBy": "XXX"
    }
}
}

```

Create a new instance. Post with params that identifies the service. ServiceOwnerId is transmitted as a part of the token.

```
/instances?serviceId=KNS/sailor
```

Get information about an instance.

```
/instances/{instanceId}
```

Get all instances that a instance owner has completed

```
/instances[?services={serviceId}][&reporter={instanceOwnerId}][&completed=true][&since=2017-01-01]
```

Get a specific data element

`/instances/{instanceId}/data/{dataId}`

Post/put/delete a specific data element

`/instances/{instanceId}/data/{dataId}`

Delete a specific instance (also deletes its data).

`/instances/{instanceId}`

ServiceOwner

Get metadata about a service owner

`/serviceowners/{serviceOwnerId}`

Get all services of a specific service owner

`/serviceowners/{serviceOwnerId}/services`

Service (metadata)

Resource: <http://platform.altinn.no/service/sailor>

```
{
  "id": "KNS/sailor",
  "createdDateTime": "2019-03-06T13:46:48.6882148+01:00",
  "createdBy": "XXX",
  "title": "Færder påmelding",
  "type": "innsending",
  "serviceOwnerId": "KNS",
  "workflowId": "standard",
  "isDeleted": false,
  "isArchived": false,
  "validFrom": null,
  "validTo": null,
  "forms": {
    "boatdata": {
      "contentType": "application/schema+json",
      "storageUrl": "sailor/schema/boatdata",
      "createdDateTime": "2019-03-04T12:01:00+01:00",
      "createdBy": "M2",
      "signatureRequired": true,
      "shouldEncryptData": true
    },
    "crewlist": {
      "contentType": "application/xsd+xml",
      "storageUrl": "sailor/schema/crewlist",
      "createdDateTime": "2019-03-04T12:01:00+01:00",
      "createdBy": "M2",
      "lastChangedDateTime": "2019-03-10T23:59:49+01:00",
      "lastChangedBy": "M42"
    }
  }
}
```

Get a list of all services

/services

Get metadata about a specific service

```
/services/{serviceId}
```

Get the schema of a specific form element in a service

```
/services/{serviceId}/forms/{dataId}?format=jsonSchema
```

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...

tbd

App services (runtime)

tb changed

One cluster per service owner. A service owner can have many apps.

```
https://{serviceownerNick}.apps.altinn.no
```

Resources: App, Service, Instance

Get list of available services.

`/services`

Post to create an instance for a specific instanceOwner. Returns a new instanceId.

`/services/{serviceId}/instances`

Filter instances for an instance owner

`/services/{serviceId}/instances?instanceOwner={instanceOwnerId}&[since="2018-07-01"]`

Put to update a specific instance. Get to get instance metadata

`/services/{serviceId}/instances/{instanceId}`

Post/put to upload/update form data

`/services/{serviceId}/instances/{instanceId}/forms/{formId}`

Put/post to change workflow step

```
/services/{serviceId}/instances/{instanceId}/workflow/{stepId}
```

Get receipt

```
/services/{serviceId}/instances/{instanceId}/receipt
```

Get validate model

```
/services/{serviceId}/instances/{instanceId}/forms/{formId}/validate
```

Get metadata about a specific service

```
/services/{serviceId}
```

Get schema for a specific form in the service

```
/services/{serviceId}/schemas/{schemaId}
```

Get texts for a specific form in the service

/services/{serviceId}/texts
