

FBO service API

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The present document describes the application programming interface (API) for connecting feed mixer weighing systems with DMS™ / NorFor™.

The following methods are available:

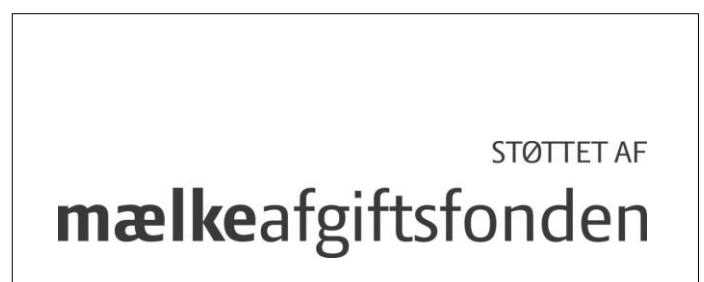
| Method | Description / use |
|------------------------------|---|
| GetMixesByagribusinessId | Read list of feed mixes from specified agribusinessID |
| GetFeedPlansByAgriBusinessId | Read active feed plans from specified agribusinessID and get information on feedstuffs to be fed in feed mix and feedstuffs fed separately. |
| CreateMix | Create a mix on the server and get a uniqueidentifier string from the FBO database |
| CreateMixLoad | Store loaded amounts and stock ID's on FBO server |
| CreateMixUnload | Store unloaded amounts of specified mixes to specified groups of animals in the herd |
| GetAgriBusiness | Provides a list of AgriBusiness for a particular user |
| GetFeedsections | Provides a list of feedsections for a particular user |

The methods are outlined in detail below.

Security

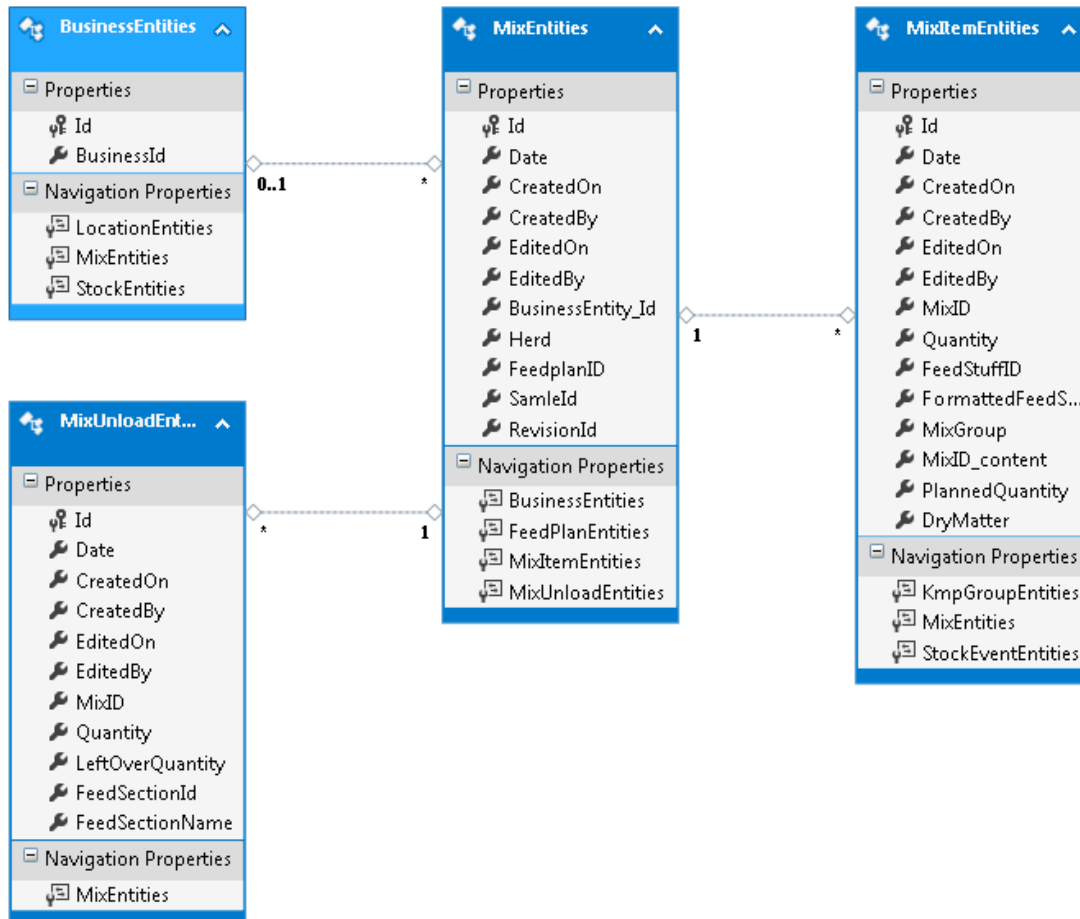
To use the service, add a header called "FboApiKey"

FboApiKey may be obtained by contacting Jesper Mortensen (Jesperm@seges.dk)



Datamodel Mixes:

Mix



METHODS:

Get /Create – Mix

Get/ Create – MixItems (Mix Loads)

Get/ Create – MixUnloads

GetMixesByagribusinessId

Provides a list of mixes including loads and unloads for a particular agribusiness

Base Url

Url: Get #baseaddress#/api/v1/mixes?agriBusinessId=#AgribusinessId#

C# example

```
var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/mixes?agriBusinessId=*****");
var request = new RestRequest(Method.GET);
request.AddHeader("fboapikey", "*****");
IRestResponse response = client.Execute(request);
```

Response:

```
[
  {
    "Id": "cae613b2-8d2e-44ab-abe3-00846a2d8e2c",
    "Date": "2016-06-06T12:48:17.963",
    "CreatedOn": "2016-06-06T12:48:19.057",
    "CreatedBy": "FBO",
    "EditedOn": "2016-06-06T12:57:58.923",
    "EditedBy": "FBO",
    "AgriBusinessId": 24476,
    "Herd": 9999,
    "FeedplanId": 142872,
    "SampleId": null,
    "RevisionId": null,
    "DmsKmpld": null,
    "IsSupplementMix": false,
    "IsOpen": false,
    "Business": {
      "Id": 678,
      "AgriBusinessId": 24476,
      "ManagementUnitId": 31176,
      "Mixes": []
    },
    "FeedPlan": null,
    "MixItems": [
      {
        "Id": "3b1901da-51d3-4963-a991-098a043680fc",
        "Date": "2016-06-06T12:48:19.667",
        "CreatedOn": "2016-06-06T12:48:24.937",
        "CreatedBy": "FBO",
        "EditedOn": "2016-06-06T12:48:24.937",
        "EditedBy": "FBO",
        "MixId": "cae613b2-8d2e-44ab-abe3-00846a2d8e2c",
        "Quantity": 65,
        "FeedStuffId": 316874,
        "FormattedFeedStuffId": "001-0008-001",
        "MixGroup": 1,
        "MixIdContent": null,
        "PlannedQuantity": 60,
        "DryMatter": 85, .....
```

CreateMix

| |
|--|
| Base Url Url: Post #baseadress#/api/v1/mixes |
| Body <pre>{ "Date": "2016-09-07", "AgriBusinessId": 24476, "FeedplanId": 138309, "IsSupplementMix": false }</pre> |
| C# example <pre>var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/mixes"); var request = new RestRequest(Method.POST); request.AddHeader("cache-control", "no-cache"); request.AddHeader("content-type", "application/json"); request.AddHeader("fboapikey", "*****"); request.AddParameter("application/json", "{\n \"Date\": \"2016-09-07\", \n \"AgriBusinessId\": 24476, \n \"FeedplanId\": 138309, \n \"IsSupplementMix\": false\n}", ParameterType.RequestBody); IRestResponse response = client.Execute(request);</pre> |

Response:

```
{
  "Id": "decdc17e-4f81-4072-9365-b97646e5b5e0",
  "Date": "2016-09-07T00:00:00",
  "CreatedOn": "2016-09-07T11:19:29.3746065+02:00",
  "CreatedBy": "MCM",
  "EditedOn": "2016-09-07T11:19:29.3766067+02:00",
  "EditedBy": "MCM",
  "AgriBusinessId": 24476,
  "Herd": null,
  "FeedplanId": 138309,
  "SampleId": null,
  "RevisionId": null,
  "DmsKmpld": null,
  "IsSupplementMix": false,
  "IsOpen": null,
  "Business": {
    "Id": 678,
    "AgriBusinessId": 24476,
    "ManagementUnitId": 31176,
    "Mixes": []
  },
  "FeedPlan": null,
  "MixItems": [],
  "MixUnloads": []
}
```

CreateMixLoad

| |
|---|
| Base Url |
| Url: Post #baseadress#/api/v1/mixitems |
| Body |
| <pre>{ "Date": "2016-09-07", "MixId": "e48a59aa-bec4-464b-9262-008c8a8f4cc5", "Quantity": 123, "FeedStuffId": "500910", "FormattedFeedStuffId": "", "PlannedQuantity": "100", "DryMatter": "83" }</pre> |
| C# example |
| <pre>var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/mixitems"); var request = new RestRequest(Method.POST); request.AddHeader("cache-control", "no-cache"); request.AddHeader("content-type", "application/json"); request.AddHeader("fboapikey", "*****"); request.AddParameter("application/json", "{\n \"Date\": \"2016-09-07\", \n \"MixId\": \"e48a59aa-bec4-464b-9262-008c8a8f4cc5\", \n \"Quantity\": 123, \n \"FeedStuffId\": \"500910\", \n \"FormattedFeedStuffId\": \"\", \n \"PlannedQuantity\": \"100\", \n \"DryMatter\": \"83\"\n}", ParameterType.RequestBody); IRestResponse response = client.Execute(request);</pre> |

Response

```
{
  "Id": "b8f2f139-4888-4306-bbfc-1569bb4e1789",
  "Date": "2016-09-07T00:00:00",
  "CreatedOn": "2016-09-07T14:34:55.8981416+02:00",
  "CreatedBy": "MCM",
  "EditedOn": "2016-09-07T14:34:55.8991417+02:00",
  "EditedBy": "MCM",
  "MixId": "e48a59aa-bec4-464b-9262-008c8a8f4cc5",
  "Quantity": 123,
  "FeedStuffId": 500910,
  "FormattedFeedStuffId": "",
  "MixGroup": null,
  "MixIdContent": null,
  "PlannedQuantity": 100,
  "DryMatter": 83.0,
  "Mix": null
}
```

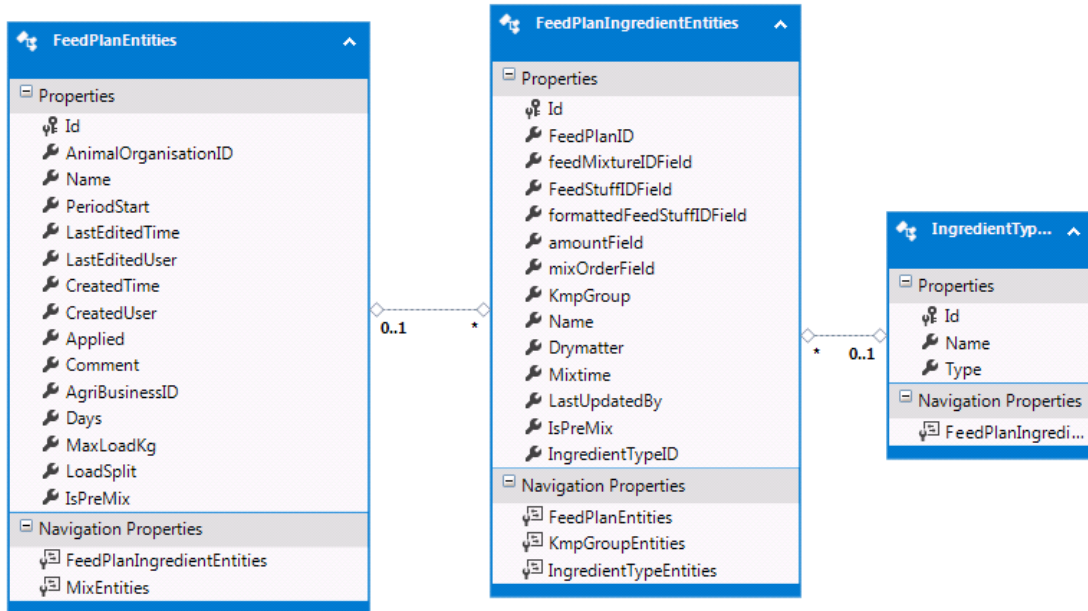
CreateMixUnload

| |
|--|
| Base Url |
| Url: Post #baseadress#/api/v1/mixUnloads |
| Body |
| <pre>{ "Date": "2016-09-07 00:00:00", "MixId": "e48a59aa-bec4-464b-9262-008c8a8f4cc5", "Quantity": 123, "LeftOverQuantity": 0, "FeedSectionId": "1012", "FeedSectionName": "" }</pre> |
| C# example |
| <pre>var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/mixunloads"); var request = new RestRequest(Method.POST); request.AddHeader("cache-control", "no-cache"); request.AddHeader("content-type", "application/json"); request.AddHeader("fboapikey", "***"); request.AddParameter("application/json", "{\n \"Date\": \"2016-09-07 00:00:00\",\n \"MixId\": \"e48a59aa-bec4-464b-9262-008c8a8f4cc5\",\n \"Quantity\": 123,\n \"LeftOverQuantity\": 0,\n \"FeedSectionId\": \"1012\",\n \"FeedSectionName\": \"\"\n}", ParameterType.RequestBody); IRestResponse response = client.Execute(request);</pre> |

Response

```
{
  "Id": "b744ebe2-401f-4900-9923-5944df4eb17b",
  "Date": "2016-09-07T00:00:00",
  "CreatedOn": "2016-09-07T15:37:26.737188+02:00",
  "CreatedBy": "MCM",
  "EditedOn": "2016-09-07T15:37:26.737188+02:00",
  "EditedBy": "MCM",
  "MixId": "e48a59aa-bec4-464b-9262-008c8a8f4cc5",
  "Quantity": 123,
  "LeftOverQuantity": 0,
  "FeedSectionId": 1012,
  "FeedSectionName": "",
  "Mix": null
}
```

Feedplans



METHODS:

Get (incl FeedPlanIngredient)

GetFeedPlansByAgriBusinessId

Provides a list of feedplans including ingredients for a particular agribusiness

Base Url

Url: Get #baseaddress#/api/v1/feedplans?agriBusinessId=#AgribusinessId#

C# example

```
var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/
feedplans?agriBusinessId=*****");
var request = new RestRequest(Method.GET);
request.AddHeader("fboapikey", "*****");
IRestResponse response = client.Execute(request);
```

Response:

```
[
  {
    "Id": 138309,
    "AnimalOrganisationId": 138326,
    "Name": "TEST_PD_20150911_Goldkøer",
    "PeriodStart": "2015-09-12T06:21:09.963",
    "LastEditedTime": "2015-09-15T07:12:17.077",
    "LastEditedUser": "dyrpeterd",
    "CreatedTime": "2015-09-12T06:48:32.607",
    "CreatedUser": "dyrpeterd",
    "Applied": true,
    "Comment": "",
    "AgriBusinessId": 24476,
    "BusinessEntityId": 678,
    "Days": 1,
    "MaxLoadKg": null,
    "LoadSplit": 1,
    "IsPreMix": null,
    "Business": {
      "Id": 678,
      "AgriBusinessId": 24476,
      "ManagementUnitId": 31176,
      "Mixes": []
    },
    "FeedPlanIngredients": [],
    "Mixes": []
  },
  {
    "Id": 142859,
    "AnimalOrganisationId": 142876,
    "Name": "TestNy6", .....
```


GetAgriBusiness

Provides a list of AgriBusiness for a particular user

Base Uri

Url: Get #baseaddress#/api/v1/businesses

C# example

```
var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/businesses");
var request = new RestRequest(Method.GET);
request.AddHeader("cache-control", "no-cache");
request.AddHeader("fboapikey", "*****");
IRestResponse response = client.Execute(request);
```

Response

```
[
  {
    "Id": 678,
    "AgriBusinessId": 24476,
    "ManagementUnitId": 31176,
    "Name": null,
    "Address": null,
    "FeedSections": [],
    "FeedPlans": [],
    "Mixes": []
  }
]
```

GetFeedsections

Provides a list of feedsections for a particular user

Base Url

Url: Get #baseaddress#/api/v1/feedsections

C# example

```
var client = new RestClient("http://localhost.vfltest.dk/Fbo.Web.Api/api/v1/feedsections");
var request = new RestRequest(Method.GET);
request.AddHeader("postman-token", "8af82522-00a2-c0bc-c49b-1184d51aef06");
request.AddHeader("cache-control", "no-cache");
request.AddHeader("fboapikey", "*****");
IRestResponse response = client.Execute(request);
```

Response

```
[
  {
    "Id": 1,
    "Name": "Cows ",
    "BusinessEntityId": 678,
    "Business": {
      "Id": 678,
      "AgriBusinessId": 24476,
      "ManagementUnitId": 31176,
      "Name": null,
      "Address": null,
      "FeedSections": [],
      "FeedPlans": [],
      "Mixes": []
    }
  }
]
```