

MigratoryData Extension API

Developer's Guide and Reference Manual

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Chapter 1

Developer's Guide

This guide includes the following sections:

- [Overview](#)
- [Creating Extensions for MigratoryData Server](#)
- [Examples](#)

1.1 Overview

This Application Programming Interface (API) contains all the necessary operations for building extensions for MigratoryData Server.

Before reading this manual, it is recommended to read *MigratoryData Architecture Guide* ([PDF](#), [HTML](#)).

1.2 Creating Extensions for MigratoryData Server

A typical API usage is as follows:

1.2.1 Step 1 - Import in your application the API as follows:

```
import com.migratorydata.extension.MigratoryDataExtensionListener;
```

1.2.2 Step 2 - Implement the interface MigratoryDataExtensionListener

The interface [MigratoryDataExtensionListener](#) is available under the folder `doc/Extensions/entitlement/api` of this package.

1.2.3 Step 4 - Building the jar of the extension

Build a jar consisting in the object code of the class defined at Step 2. In addition, the jar must also include a folder named `services` in its `META-INF` folder. Moreover, the folder `services` must include a file named `com.migratorydata.agent.MigratoryDataExtensionListener` which must have as content the fully qualified name of the class defined at Step 2.

1.2.4 Step 5 - Install the extension

Rename the JAR built at Step 4 to `extension.jar` and deploy it to the folder `extensions` of the root folder of your MigratoryData server installation. If you installed MigratoryData Server using the `deb/rpm` packages, then deploy the JAR to the folder `/usr/share/migratorydata/extensions`.

1.2.5 Step 6 - Configure the entitlement

In the configuration file of the MigratoryData server, configure the parameter `Entitlement` as follows:

```
Entitlement = Custom
```

1.2.6 Step 7 - Restart the MigratyData server

1.2.7 Step 8 - Include the entitlement token in clients

Use the API call `MigratoryDataClient.setEntitlementToken()` to attach an entitlement token to the clients of the MigratoryData server.

1.3 Examples

An example built with this API is available in the folder `doc/Extensions/entitlement/examples` of this package; start with the `README` file which explains how to compile and run the example.

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

[MigratoryDataExtensionListener](#)
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Chapter 3

Class Documentation

3.1 MigratoryDataExtensionListener Interface Reference

Implementations of this interface can handle the events made available by the MigratoryData server for its extensions.

Public Member Functions

- boolean [onEntitlementSubscribeCheck](#) (String subject, String token)
Notify that a client identified with the token given in argument demands to subscribe to the subject given in argument.
- boolean [onEntitlementPublishCheck](#) (String subject, String token)
Notify that a client identified with the token given in argument demands to publish a message with the subject given in argument.

3.1.1 Detailed Description

Implementations of this interface can handle the events made available by the MigratoryData server for its extensions.

Thread safety

The method exposed by this interface are always called from by same thread.

3.1.2 Member Function Documentation

3.1.2.1 onEntitlementSubscribeCheck()

```
boolean MigratoryDataExtensionListener.onEntitlementSubscribeCheck (
    String subject,
    String token )
```

Notify that a client identified with the token given in argument demands to subscribe to the subject given in argument.

Note

The entitlement verification made by this method should take as little time as possible, before you publish the entitlement response. Otherwise, the pending entitlement requests might be delayed.

Parameters

<i>subject</i>	The subject to be verified
<i>token</i>	The token to be verified

3.1.2.2 onEntitlementPublishCheck()

```
boolean MigratoryDataExtensionListener.onEntitlementPublishCheck (  
    String subject,  
    String token )
```

Notify that a client identified with the token given in argument demands to publish a message with the subject given in argument.

Note

The entitlement verification made by this method should take as little time as possible, before you publish the entitlement response. Otherwise, the pending entitlement requests might be delayed.

Parameters

<i>subject</i>	The subject to be verified
<i>token</i>	The token to be verified

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