



## AMI Center Replication

This document details how to replicate data from one AMI Center to another AMI Center using its built-in support for data replication. It supports subscription to tables and replication to another AMI Center.

This document provides an example on how to use AMI Center Replication.

### Prerequisites:

- Have at least 2 AMI centers running, e.g.
  - host:center\_port eg. localhost:3270 & localhost:4270
- Tables to be replicated in the individual centers
  - Table schema in the source center must be identical to replicated table in destination center

### Replication Procedures

#### **\_\_ADD\_CENTER(CenterName String, Url String, Certfile String, Password String)**

- CenterName (Required): Specified name for center (source)
- Url (Required): Url of center (host: ami.center.port)
- Certfile: Path to the certfile (optional)
- Password: Password if a certfile is given (optional)

#### **\_\_REMOVE\_CENTER(CenterName String)**

#### **\_\_ADD\_REPLICATION(Definition String, Name String, Mapping String, Options String)**

- Definition (nonnull): Target\_TableName=Source\_CenterName.Source\_TableName or Source\_CenterName.TableName (if both source and target has same table name)
- Name: Name for the replication
- Mapping: Mappings to be applied for the tables, (key value delimited by comma) ex: "target\_col\_name=source\_col\_name" or ex: "(act=account,symbol=symbol,value=(px\*qty))"
- Options: options to clear the replication on
  - "Clear=onConnect" or "Clear=onDisconnect"
    - *Note: If configured the replicated table will clear when the center connects or disconnects*

#### **\_\_REMOVE\_REPLICATION(Name String)**

*Note: When replicating from the source AMI Center and the source table, ensure the table is a Public table with Broadcast Enabled.*



*Note2: Configuring the RefreshPeriodMs will allow you to adjust for throughput, performance and how often updates are pushed.*

*Lower RefreshPeriodMs means updates are pushed more frequently which potentially means lower throughput.*

*Higher RefreshPeriodMs could mean higher throughput and better performance but fewer updates.*

*Note3: Removing the replication will clear all the copied entries on the target side's table, regardless of the options.*

## **Replication Sample Guide**

To replicate data from one AMI Center to a destination AMI Center, first we need to `add` the source AMI Center in the destination AMI Center. After which we can replicate target tables from the source to the destination.

*Example:*

***call \_\_ADD\_CENTER("source", "localhost:3270");***

*\_\_ADD\_CENTER* Adds the source center you want to copy from. So if your AMI Center Port is 3270, and you call *\_\_ADD\_CENTER* on the destination AMI Center, that means you plan to replicate data from 3270 to 4270.

***call \_\_ADD\_REPLICATION("dest\_table=source.mytable", "myReplication", " account=account", "Clear=onConnect");***

*\_\_ADD\_REPLICATION* specifies which table on the source side the target side wants to replicate. The data travels from source to target, from 3270 to 4270.