Microsoft SQL Server 2005 – replication settings
Step 1
Preparation

• Install „Microsoft SQL Server 2005” on the main server, which will be the „publisher”.

• Install „Microsoft SQL Server 2005 Express” on all servers, which will be „subscribers”.

• All servers should be with open 1433 port.

• All of the IP addresses and the names of all „subscriber” servers, should be added in the „HOSTS” fail of the Windows installation on the main server. This must be done in the end of the fail, bellow the “local host” section.

(c:\windows\system32\drivers\etc\hosts).
Step 2

With the „SQL Server Management Studio“, you create the database which will be in replication.

It is recommended all of the initial data, as items, locations and quantities to be created in the database before the replication. It is not recommended, a large amount of information to be imported in the database, if it is already working with replication.
Step 3

Creation of User with a password on the server, which will be used for the replication.

The creation of an User is a two phase process. First, it must be added in section: „Security” – „Logins” – „New login”.
Step 4

Creation of User with a password on the server, which will be used for the replication.

Then you choose „SQL server authentication”, where you should define the password and to disable the following: “Enforce password policy”, “Enforce password expiration” and “User must change password at next login”.
Step 5

Creation of User with a password on the server, which will be used for the replication.

The second phase is to add an “User” to the database. This can be done from: “Security” – “Users” – “New user”.

![Image of SQL Server Management Studio with the Users folder open and a New User option highlighted.]
Step 6

Creation of User with a password on the server, which will be used for the replication.

In the field „User name”, you should put the name you want, at the „Login name” field you choose the already created “User” from the menu. In the “database role membership” window, you should check “db_owner”.
To create a publication, you should go to: „Replication” – „local publications” and with a right click of the mouse, choose „New publication”.

Step 7

How to make publication
Step 8
How to make publication

When you get to the upper screenshot, don’t change anything and go ahead.
Step 9
Distributor’s configuration

When you get to the upper screenshot, don’t change anything and go ahead.
Step 10
Distributor’s configuration

When you get to the upper screenshot, don’t change anything and go ahead.
Step 11

Distributor’s configuration

When you get to the upper screenshot, don’t change anything and go ahead.
Choose the data base, which will be replicated.
Step 13
How to make publication

Choose the type of the publication: “Merge publication”.

Publication Type
Choose the publication type that best supports the requirements of your application.

Publication type:
- Snapshot publication
- Transactional publication
- Transactional publication with updatable subscriptions
- Merge publication

Publication type descriptions:
- The Publisher streams transactions to SQL Server Subscribers after they receive an initial snapshot of the published data. Transactions originating at the Subscriber are applied at the Publisher.

Merge publication:
The Publisher and Subscribers can update the published data independently after the Subscribers receive an initial snapshot of the published data. Changes are merged periodically. Microsoft SQL Server Compact Edition can only subscribe to merge publications.
Step 14
How to make publication

When you get to the upper screen,, please go ahead without changing anything. Leave: „SQL Server 2005”.
Step 15

How to make publication

Pick up all of the tables shown.
Step 16
How to make publication

There are two recommended steps for tables: Store, Payments and Operations. Choose: “Set Properties of This Table Articles”.
"Publisher range size" and "Subscriber range size" should be increased to one million.
Step 18
How to make publication

When you get to the shown screen, please tap “Next”, without any changes.
Step 19
How to make publication

When you get to the shown screen, please tap “Next”, without any changes.
When you get to the shown screen, please tap “Next”, without any changes.
Defining the “Security Settings” for the connection to the Publisher.
Step 22
How to make publication

Please, choose „Run under the SQL Server Agent service account” and „Using the following SQL Server login”. Put username and password.
Step 23
How to make publication

When you get to the shown screen, please tap “Next”, without any changes.
Define the name of the publication.
Step 25

How to make publication

In case, there are no mistakes, the publication is created successfully.
Step 26
Settings of the publication

After the creation is done, please enter the “Properties” of the publication.
Step 27
Settings of the publication

Enter the "Snapshot“ settings’ page. Choose "Put files in the following folder“ and browse for folder: "C:\Inetpub\ftproot", Afterwards check in: "Compress snapshot files in this folder".
In the page: "FTP Snapshot and Internet", you should check in "Allow Subscribers to download snapshot files using FTP".
An empty database should be created on the Subscriber. It must be with the same name, as the main database. An User must be added – it must be the same, as the one in the Publisher (it must be added to the server and to the database).
Step 30
Creation of a Subscriber

Creation of a Subscriber from section „Replication“ – „local publications“ – our publication must be marked and with right mouse click, “New subscriptions” must be choosed.
When you get to the shown screen, please tap “Next”, without any changes.
Choose the publication, to whom the Subscriber will be.
In the "Merge Agent Location" nothing have to be changed. „Push Subscriptions” must be marked.
From "Add SQL Server Subscriber", you must choose the server, which will be a “Subscriber”.

Step 34
Creation of a Subscriber
Step 35
Creation of a Subscriber

The Subscriber’s data base have to be defined.
Step 36
Creation of a Subscriber

The Security Settings for the connection with the Merge Agent must be set.
In the "Merge Agent Security" field, "Run under the SQL Server Agent service account" and "Using the following SQL Server login" must be marked. With the last setting, an username and password have to be defined.
Step 38
Creation of a Subscriber

A Synchronization Schedule must be defined.
Step 39
Creation of a Subscriber

The schedule, which must be choose is: every day; every five minute.
In the „Initialize Subscriptions“ field, must be marked „Immediately“. 
In "Subscription Type" field, a “Client” must be choose.
Step 42
Creation of a Subscriber

In the „Wizard Actions” window, choose „Create the subscription(s)”. 
A window with all chosen parameters will show up.
Step 44
Creation of a Subscriber

In case, there are no mistakes, the Subscriber has been done successfully.
Step 45

Monitor of all replications

From the field „Replication” – „local publications” – with a right click on the publication, a „launch replication monitor” can be start. It can be used for monitoring the status of the replications.
Step 46
Monitor of all replications

From the upper screen, you can see the Subscriber in synchronization process.
Step 47
Monitor of all replications

The Subscriber is still synchronizing.
Step 48
Monitor of all replications

The synchronization has been successfully accomplished.
Step 49

Microinvest Warehouse Pro settings

- In the Microinvest Warehouse Pro settings, must be filled in only the “Server”, without the “Replication Server”

- When a replication is in use, Microinvest Warehouse Pro must work with “Document numbers by locations” (must be enabled).

- All “Users” must be locked by “Locations” and each user must work only from the “Location” he is assigned to.