

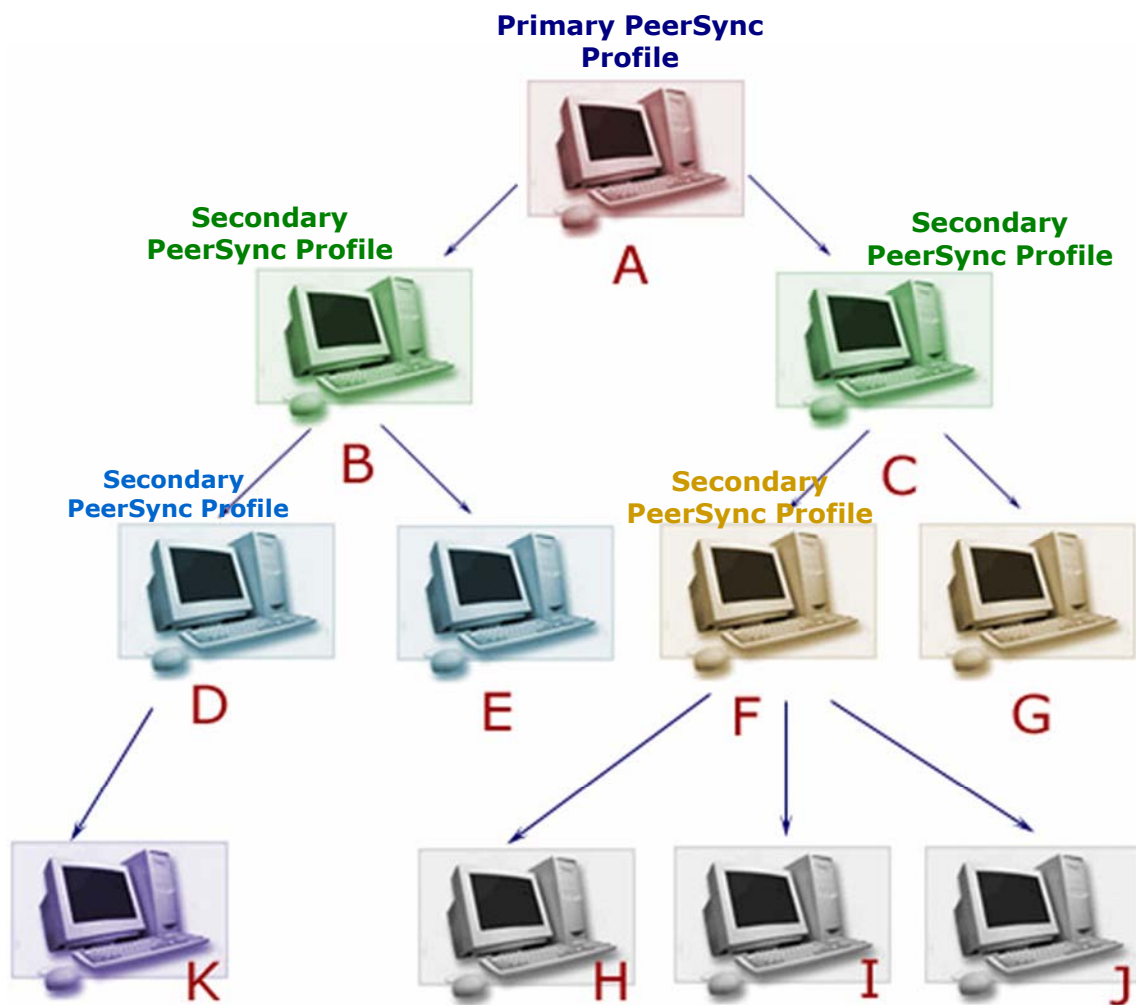
**GOAL:**

To setup a multi-tiered Replication to enable data replication to multiple machines.

*This would be a useful feature if you need to replicate data to hundreds of machines and you want to make sure your specified information is delivered successfully to each tier before it gets replicated to the next level of machines.*

*These instructions are written for PeerSync 7.1.5*

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**1. WHEN TO USE THIS PARTICULAR SETUP**

This setup is used to replicate data on a schedule from one main machine to multiple other machines making sure all the machines have successfully received the specified data.

## 2. BENEFITS

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With this Multi-Tiered Replication setup you can:

- a. Specify the specific block time to run the replication on  
*(This could be during non working hours when more bandwidth is available)*
- b. Setup e-mail reporting for each machine with replication status  
*(Sending an e-mail report will give you the status of the data delivery for each machine)*
- c. Setup log reporting for each machine with replication status  
*(Creating a log report will give you the status of the data delivery for each machine)*

## 3. GENERAL SETUP

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There will be two main profiles. The Primary Profile to be run on the Main Machine (A) and the Secondary profile to be run on all the other machines (B,C).

The Primary PeerSync Profile will replicate files from Machine A to secondary machines B, C ... The Secondary Profile will then replicate to tier 3 machines D, E, F, G... Once the second tier replication has completed the third tier replication to machines H, I, J, K will be initialized using the same Secondary Profile *(The Secondary is used on any tier below the primary machine A)*.

Once the replication is completed for each individual secondary machine, the trigger file on the secondary machine(s) will be updated, which will then Kick off the replication to the next tier of machines.

Also a Success/Failure E-mail report or Log file report will be generated depending upon the settings specified.

## 4. PRIMARY PROFILE

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Create your Primary Profile with the following settings:

### **Folder Selection:**

**Source:** Source Path

**Target:** Target Text File with all the 1<sup>st</sup> tier receiving machines.

**Ex.** \\<<\$Complst1.txt\$>>\C\$\Testing\Data

*(Refer to the "Reading in Job Information from a Text File" documentation for more information on dynamically creating Jobs with source/target text files)*

### **Exceptions:**

**Exclude Files:** GLBLCHG.000;

*The "GLBLCHG.000" file is the trigger file that will be used to kick off the next level tier replication.*

### **Reporting:**

**Use Log File:**

Log file path: C:\Logs\%yyyy%- %mm%- %dd%\<<\$Complst1.txt\$>>.Log

*The above path is an example of the use of the date variables and text files to create customized log files for each Jobs and archiving them based on the date of the replication.*

### **Reporting → E-mail Reporting:**

In this section you will configure your E-mail Reporting for use by the Post Process LOGEMAIL.

**Note:** Once your e-mail configuration is filled in make sure you uncheck Create Administrative E-mail Messages.

**Check "Create Administrative E-mail Messages"** to be able to access the E-mail Configuration screen.

**Click on the "E-mail Configuration" Button**

In this screen fill in all your e-mail configuration information

**Finally UNCHECK "Create Administrative E-mail Messages"**

### **File Options:**

Select **Add**, **Update** and **Include Open Files**

### **Pre/Post Process:**

**Before:** SETBLACKOUT OPT1 0800:1700

**This command will set a blackout time range when PeerSync will stop processing incoming events as well as scheduled events.**

*Refer to the [SETBLACKOUT](#) document for detailed description on the available options and their behavior.*

**After:**

**UPDATETRIGGERFILE** "\\<<\$CompList1.txt\$>>\C\$\Testing\Data\GLBLCHG.000";

**This command will update the trigger file on each receiving computer as soon as the replication is complete.**

LOGEMAIL JOBSTATSUMMARY

**This command will generate an e-mail with the Job Statistics Summary at the end of the replication to the specific tier targets.**

*Please refer to the [LOGEMAIL/LOGENTRY](#) documentation for specifications and options for this command.*

*Also refer to the [Multiple Arguments Format documentation](#) for specifications on how to include multiple commands in one Pre or Post Process field.*

## 5. SECONDARY PROFILE

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Create your Secondary Profile to be used for all the tiers below the first level:

### **Folder Selection:**

**Source:** Source Path

**Target:** Target Text File with all the next tier of receiving machines.

**Ex.** \\<<\$Complis1.txt\$>>\C\$\Testing\Data

*(Refer to [Reading in Fiter Information from a text file](#) for more information on dynamically creating Jobs with source/target text files)*

### **Exceptions:**

**Exclude Files:** GLBLCHG.000;

*The "GLBLCHG.000" file is the trigger file that will be used to kick off the next level tier replication.*

### **Reporting:**

#### **Use Log File:**

Log file path: C:\Logs\%yyyy%-%mm%-%dd%\<<\$Complis1.txt\$>>.Log

*The above path is an example of the use of the date variables and text files to create customized log files for each Job and archiving them based on the date of the replication.*

### **Reporting → E-mail Reporting:**

In this section you will configure your E-mail Reporting for use by the Post Process LOGEMAIL. Once your e-mail configuration is filled in make sure you uncheck Create Administrative E-mail Messages.

**Check "Create Administrative E-mail Messages"** to be able to access the E-mail Configuration screen.

## **Click on the "E-mail Configuration" Button**

In this screen fill in all your e-mail configuration information

**Finally UNCHECK "Create Administrative E-mail Messages"**

### **File Options:**

Select **Add**, **Update** and **Include Open Files**

### **Pre/Post Process:**

**Before:** SETBLACKOUT OPT1 0800:1700

**This command will set a blackout time range when PeerSync will temporarily suspend the processing of incoming real time events as well as scheduled events.**

*Refer to the SETBLACKOUT document for detailed description on the available options and their behavior.*

**After:**

LOGEMAIL JOBSTATSUMMARY

**This command will generate an e-mail with the Job Statistics Summary at the end of the replication to the specific tier targets.**

*Please refer to the [LOGEMAIL/LOGENTRY](#) documentation for specifications and options for this command.*

*Also refer to the Multiple Arguments format documentation for specifications on how to include multiple commands in one Pre or Post Process field.*

### **Trigger Selections:**

**Identifying the Trigger selection will ensure that the source and target trigger file will be continuously checked (at an interval) for existence as well as for version time stamp, in order to kick off the next tier of replication.**

**Source Trigger:** C:\Testing\Data\GLBLCHG.000

**Target Trigger:** \\<<\$Complst2.txt\$>>\C\$\Testing\Data

This option is used together with the **/PTE** argument in the

**Global Settings→Operation Mode→ Customize**

This argument will update the target trigger file at the end of the replication waiting for the parent tier to complete.

**Note:** If this argument was not identified, the target trigger file would be updated at the beginning of the replication, therefore kicking off the next tear of replication before the parent tier has completed.

### **Interval Scheduling:**

**The interval scheduling would ensure that the trigger files are compared to check for the target trigger file to be updated on an interval.**

**To set the Interval Scheduling at the global level do the following:**

**Global Settings→Operation Mode→**

*Check the "Use Interval Scheduling" option*

*Click on "Global Interval Options"*

*Select "Run All Scheduled Jobs Every" .1 minutes*

*Click "OK"*

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**You may download the following Sample files on our Website.**

- [Primary.snc](#)
- [Secondary.snc](#)
- [Complist1.txt](#)
- [Complist2.txt](#)

**You may also download the following technical documents:**

- [Reading in Job information from a text file](#)
- [Multiple Arguments Incorporation Proper Format](#)
- [PRE/POST Processes – Set UPDATETRIGGERFILE](#)
- [PRE/POST Processes – Set a BLACKOUT Period](#)
- [PRE/POST Processes – Notification Command \(LOGENTRY\)](#)
- [PRE/POST Processes – Success/Failure Notification Command \(LOGEMAIL\)](#)