## Synchronising via DROPBOX

This is a description of how to set up Health one to allow synchronisation between a server and a laptop, using the tool "Dropbox".

To make this work we use 4 different tools.

- 1. <u>**Dropbox**</u> this automatically monitors a designated folder (Dropbox) on the hard drives of both computers and keeps them synchronised.
- A Health one tool called Websynch which automatically exports a message to a designated export folder every time a patient file is altered. We will designate a subfolder in \\computer1\C:\Dropbox\computer1 as the export directory.

NB: The path specified in Health one to the export folder must be a UNC (Network) path.

- 3. A Health one tool Data Exchange Module (DXM)- this imports messages into H1 from a designated source directory and integrates them into patient files (HealthLink messages are imported this way) and can delete the messages in the source folder when finished. We designate a subfolder in the laptop \\Computer2\c:\DropBox\computer2 as the source directory.
- NB: On Computer 1 you are exporting files to <u>\\computer1\C:\Dropbox\computer1</u> On Computer 1 you are importing files from <u>\\computer1\C:\Dropbox\computer2</u>

On **Computer 2** you are **exporting** files to \\computer2\C:\Dropbox\computer2 On **Computer 2** you are **importing** files from \\computer2\C:\Dropbox\computer1

4. A Health one tool – **Scheduler Agent** – H1 tool running in the background, even when Health one is closed to run the DXM tool at regular intervals.

The sequence of events when the system is operational is

- You save changes to a patient file on Computer1; a message is exported to the local Dropbox folder. Dropbox notices the change and sends a copy of the message to Computer2 putting it in the local drive's Dropbox\Computer1 folder
- 2. Scheduler Agent

Runs the DXM every few minutes and the next time it runs it will import the message from the local Dropbox\Computer1 folder, integrate it into the patient file and then delete the message from the local Dropbox\Computer1 folder.

Dropbox will notice that the message has been deleted and will delete the message also on Computer1.

#### **Required:**

- 3. A dropbox account this is free <u>WWW.dropbox.com</u>
- 4. Install dropbox on both PCs.
- 5. In this example I am creating the dropbox folder on the C drive (C:\Dropbox)

#### On the server

1. Create a folder (directory) in the dropbox folder and call it "Websync". Then create a subfolder called "serverbox":

c:\Dropbox\Websync\ServerBox

- 2. Open the Health one tool, "**Source Manager**" c:\honewin\bin\HoSourceManager.exe Make sure the correct server source is highlighted.
- 3. click "file" and tick "websynchronisation"
  - a. You are presented with a box where you define the output directory for all changes to patient transactions = \\computerName\c:\Dropbox\Websync\Serverbox
     Note: The file Ho\_Source.Ini is now created, amended automatically. This file will give the path to the Health one folder where exported transactions (xml) are stored –something like this [Websync]
     outbox=\\server12:\c:\Dropbox\Websync\Laptopbox
- **4.** From this point on every Health one transaction that is validated will be copied to the dropbox folder and therefore **copied to the dropbox on the laptop also.**

# <u>On the Laptop</u> - Or any other PC – Remember that this works only between two PC and no more

- 1. Now on the laptop you should create a new DXM definition to take these XML files from the dropbox folder and integrate to Health one automatically.
- 2. You should add a schedule to this definition
- 3. Use the Health one scheduler to schedule the import every say 5 mins
- 4. The scheduler should be configured using the file below
- 5. C:\Honewin\bin\SchedulerAgent.exe
- 6. A DXM definition for XML import = Data source (Laboratory) = "Health one XML HCR"

Below is a typical DXM Definition:	Note below – These are not the default settings	
Import definition	Options	
Definition name:       DROPBOX Sync         Service :       Image:	<ul> <li>Keep original files</li> <li>Delete original files</li> <li>Move original files</li> <li>Move original files :</li> <li>Automatic integration in HEALTH one source</li> <li>Validation mandatory</li> <li>Display a list of files to be imported before processing them (Not applicable for the background DXM)</li> <li>If the patient is not found in the source: <ul> <li>Add patient as a new patient without asking the user</li> <li>Do not automatically add the patient, set its status to "Not found"</li> <li>Ignore the file, do not import it</li> </ul> </li> <li>Finish</li> </ul>	Finish
	,	
Click next on the following screen until you get		
this:		

Schedule this definition to execute a and time. This is th set. Make su and set a © Every 5 * Minute Like definition: Default Cancel	a predefined date     C.       ne last screen in the DXM defini       re you tick the "enable schedules       a short time between schedules       s)	use the sche	duler, you h ı\Scheduler <i>i</i>	ave to now Agent.exe	v run the file	
Email	HEALTH one format					
Samples	HEALTH one format					
HealthLink XML	HealthLink Labs	HEALTHLINK	IRL			
SHB	SHB HL7	SHB_HL7	SHB			
NWHB_XML	NWHB Edifact V HL7 - Ireland	NWHB_HL7	IR2			
NEHB	NEHB HL7	NEHB_HL7	IR2			
E SEHB	SHB HL7	SHB_HL7	SHB	=		
DROPBOX Sync HEALTH one XML Hcr		XMLHCR	Empty	10		
₩¥ <u>E</u> xecu	😪 Execute 🔀 Edit 🗙 Delete 🖸 New 🗙 Cancel					

Scheduler Agent – Running the Scheduler to enable programs to run in the background, even when Health one is closed

C:\Honewin\bin\SchedulerAgent.exe

Service DXM	
Start Stop • Current status: Running	Click on "Start" to start the scheduler
Log: C:\honewin\Logs\Scheduler_2012112	0.Log
Click on the red orchid to configure	a which programs you wish to schedule.

S	cheduler configur	ation						
	Options							
	Start delay	0						
	Scheduler log	Γ						
	Default log folder	C:\honewin\Logs	\					C
	Schedules Available schedules		Selected scł	nedules				
	MSMQInjector		Enabled	Name	Mode	Interval	Server name	
	WebSphereInjector	~ ~		DXM	Interval 📑	<ul> <li>3 Min</li> </ul>	TECRA2	
	HealthGuardServer WebSync client Introlution Export ScanToDatabase DB Monitor DB Updater Analysis Status	×	Click on "DXM" on the left. Click on the arrow in the middle to send this schedule to the right Double Click on the "DXM" schedule on the right to define how often you want the schedule to run.					

You get the screen below when you double click on the Scheule name "DXM in this case) on the right above:

🔽 Enabled < Enab	le scheduler	
Options		
<ul> <li>Interval</li> </ul>	5 🗭 Minutes 💌	Server name TECRA2
<ul> <li>Only between</li> </ul>	08:00 💌 and 20:00 💌	Set intervals and other parameters as you
C Fixed time	00:00	wish.
Logging		
🔲 Daily logging	Log if already in use when triggered	No need to log normally
Log file	C:\honewin\Logs\DXMProcessor.Log	
Extra parameters		
Group ID	0 🚖	
Source	MSDETECRA	
		<u>O</u> k <u>C</u> ancel

### In Summary

- 1. Install Dropbox on Server and on laptop
- 2. Open Source Manager on Server and click "File" → "Websynchronisation
- 3. Enter the path to a subfolder of your local Dropbox folder eg: c:\Dropbox\Websync\ServerBox
- 4. On Laptop, create new DXM (lab) definition to import patient files from local dropbox folder

c:\Dropbox\Websync\ServerBox

5. NB: Drobbox will automatically copy the files from the server to the laptop dropbox folder. This is the key to success.

6. You have now set up the system to export from the Server to the laptop in order for it to work the other way also you need to Configure the WebSynch on the Laptop to export <u>and</u> the DXM and Scheduler on the Server to import.