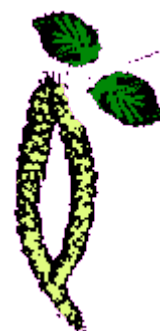


docoll Windows rsync client sysadmin guide



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1 Introduction

This document describes the procedure for setting up a Windows system as an rsync client. It is intended for the docoll system but could be used generally.

1.1 Related documentation

In descending order of likely usefulness to a new reader:

- "docoll system introduction"
- "docoll rsync server sysadmin guide"
- "docoll upgrade guide"
- "docoll sysadmin guide"
- "docoll rsync pilot development log"
- RELEASE
- "docoll upgrade guide"

2 Prerequisites

2.1 Software

- Either docoll_windows_client-0.7.5.zip or docoll_windows_client_**all-0.7.5.zip.

docoll_windows_client_**all-0.7.5.zip includes this document and cwRsync_4.0.5_Installer.zip, the last free version of cwRsync. cwRsync was FOSS until 21 November 2011 when it [ITeFlx made in non-free](#). At that time version 4.2.0 was the latest release, released on 28 September 2001.

- Windows XP only: .zip unpacker such as WinZIP or WinRAR.

2.2 Access

A member of the Administrators group.

2.3 Data

For each client ...

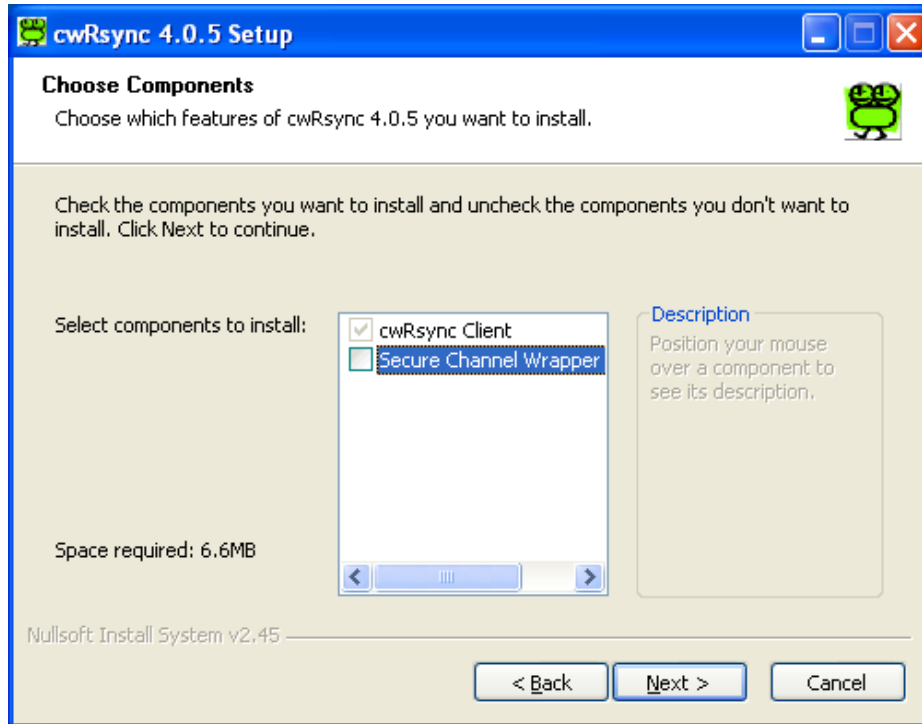
1. The computer name.
2. A password. It must match the password configured in the server's rsyncd.secrets file for the client.

3 Installation

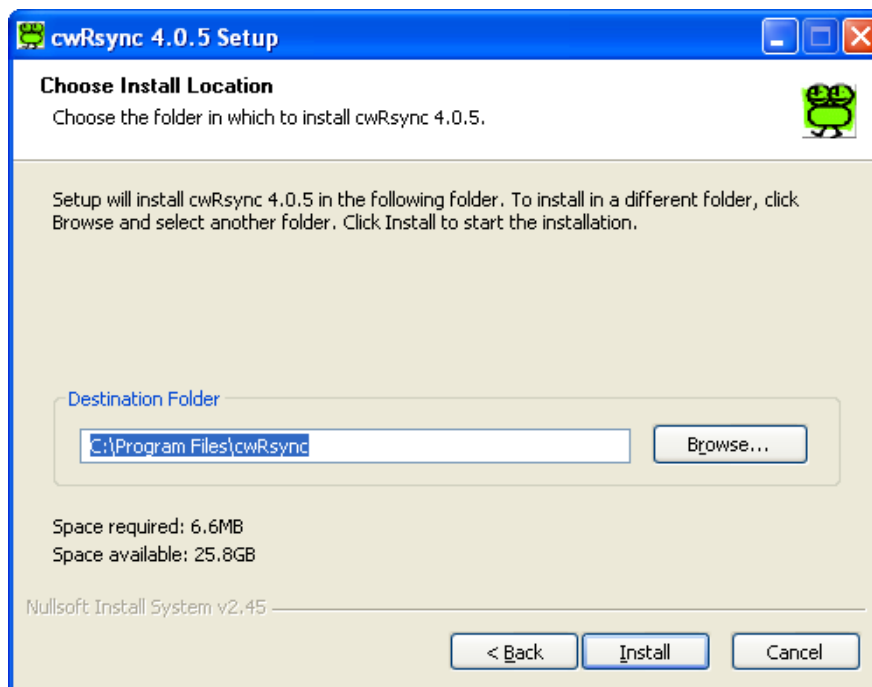
If using docoll_windows_client_**all-0.7.5.zip, extract docoll_windows_client-0.7.5.zip and cwRsync_4.0.5_Installer.zip.

3.1 cwRsync

1. Ideally as Administrator (easiest) but otherwise as a member of the Administrators group ...
2. Disable any security software that checks file execution and creation.
3. Open cwRsync_4.0.5_Installer.zip (or a later version of your choice) and run the .exe
 - a) Deselect the secure channel wrapper.



- b) Make a note of the destination directory and accept it.



4. Enable any security software that was disabled in step 2.

3.2 docoll rsync client

Extract the contents of docoll_windows_client-0.7.5.zip into the same folder that cwRsync was installed into.

4 Configuration

The rsync server needs to be configured for each client. This is described in related document "docoll rsync server sysadmin guide".

Copy the three sample configuration files from the docoll\samples subfolder of the cwRsync folder to the docoll\conf subfolder of the cwRsync folder and edit them as explained below.

4.1 Overview

The main configuration file is docoll_cwrsync.ini.

For each drive (C:, D: etc.) to be synchronised, one more configuration file is required and one is optional. For the C: drive these are normally:

<i>File name</i>	<i>Purpose</i>	<i>Required/optional</i>
C_files_from.txt	Lists folder(s) to be synchronised	Required
C_exclude_from.txt	Lists sub-folder(s) of the folder(s) listed in C_files_from.txt to be excluded from the synchronisation	Optional

Notes:

1. Similarly named files are required for any further drives. If synchronising files from the D drive, for example, D_files_from.txt would be required and optionally D_include_from.txt.

4.2 docoll_cwrsync.ini

Notes:

1. Two configuration values must be changed: Server-ID and Password.
2. For each drive other than C that is to be synchronised, add a new [<drive letter>] section.
3. If no files are to be synchronised from the C drive, delete or comment out the sample C drive section.

Sample file:

```
; Sample configuration file for docoll_rsync.vbs

; The only lines which absolutely must be changed are Server-ID and Password.

; Lines beginning with ; are ignored.
; Empty lines are ignored.
; Leading and trailing whitespace (spaces and tabs) are ignored.

; Section names are given in [brackets].
; Whitespace immediately after [ and immediately before ] is ignored.
; Section names are not case sensitive

; "keyname = value" lines:
; Whitespace either side of the = is ignored.
; Keynames are not case sensitive.
; Case is preserved in values.
```

```
; Whitespace within values is preserved.

; A Global section is required.
[Global]

; A server-ID key is required.
; Its value must be the name or IP address of the rsync server.
Server-ID = 192.168.168.51

; A Password key is required.
; Its value must be the same as configured on the rsync server for this rsync
; client.
Password = password

; In case the client's computer name for use with the rsync server is not the
; same as its actual name, a Client-name key is available.
;Client-name = C3P0-PC

; In case the default 28-day log retention period is to be over-ridden, a
; Log-retention key is available.
Log-retention = 14

; The default log directory (%systemdrive%\Program Files\cwRsync\docoll\logs) can be
; changed by the Log-directory key
; Log-directory = D:\Logs

; A section is required for each drive containing folders to be synchronised.
; Its name is the drive letter.
[C]

; Files-from is required
Files-from = C_files_from.txt

; Exclude-from is optional
; Exclude-from = C_exclude_from.txt
```

4.3 *_files_from.txt

Required.

Normally called C_files_from.txt, D_files_from.txt etc.

One line for each folder (and its contents) to be synchronised.

The format of this file is described in the [rsync documentation](#) in the --files-from option section.

Sample contents (this is a small set of files, suitable for testing):

```
WINDOWS/system32/drivers/etc/
```

Gotcha! "/" characters must be used as directory separators, not the "\" characters conventional in Windows.

Change the sample line to a list of root folders, one for each folder tree to be synchronised. Examples:

- For the whole drive:
/
- For a few users' "My Documents" folders:
Documents and Settings/C3P0/My Documents/
Documents and Settings/R2D2/My Documents/

4.4 *_exclude_from.txt

Optional.

Normally called C_exclude_from.txt, D_exclude_from.txt etc.

One line for each folder (and its contents) to be excluded from the synchronisation.

Sample:

Configuration file for cwrsrc

```
# * Lines beginning with # or ; and empty lines are ignored.
# * Format defined in the rsync man page under:
#   > --exclude-from=FILE
#   > FILTER RULES section (search for "filter rules allow")
```

Documents and Settings/Administrator/My Documents/My Pictures/

#

1. **Gotcha!** "/" characters must be used as directory separators, not the "\" characters conventional in Windows.
2. **Gotcha!** If a directory and its contents are to be excluded, the line must end in / as shown in the sample.
3. Replace the sample line with one line for each file or directory to be excluded. Regular expressions may be used, details in the [rsync man page](#).
4. These lines are useful when synchronising a complete NTFS drive:
 RECYCLER/
 System Volume Information/
5. To exclude a few users' "My Pictures" folders:
 Documents and Settings/C3P0/My Documents/My Pictures/
 Documents and Settings/R2D2/My Documents/My Pictures/

4.5 Configuration testing

The docoll_cwrsrc.ini file may be tested at a command prompt using the /V (verify) switch:

```
C:\Program Files\cwRsync\docoll>docoll_cwrsrc.vbs /V
```

5 Firewall configuration

Details are firewall-specific. The system requires a TCP "stream" to port 873 on the remote host.

6 Scheduled Task configuration

6.1 Windows XP

If Control Panel is in standard view: Control Panel → Performance & Maintenance → Scheduled Tasks → Add Scheduled Task.

If Control Panel is in classic view: Control Panel → Scheduled Tasks → Add Scheduled Task.

1. Browse to "C:\Program Files\cwRsync\docoll_cwrsrc.vbs" and click Open.

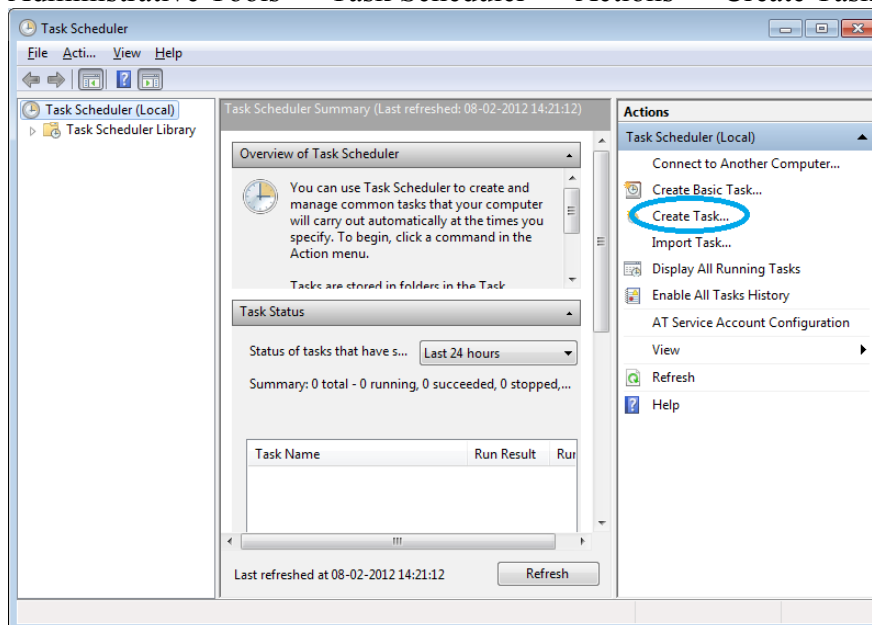
2. Select "When my computer starts" or some other time, as required.
3. Next
4. User name: SYSTEM.
5. Next
6. Tick "Open advanced properties ..."
7. Finish
8. Change the Run field to: CScript //NoLogo "C:\Program Files\cwRsync\docoll\docoll_cwrsync.vbs"
9. Apply
10. OK (in the "Set Account Information" window; do not enter a password).
11. OK

6.2 Windows Vista

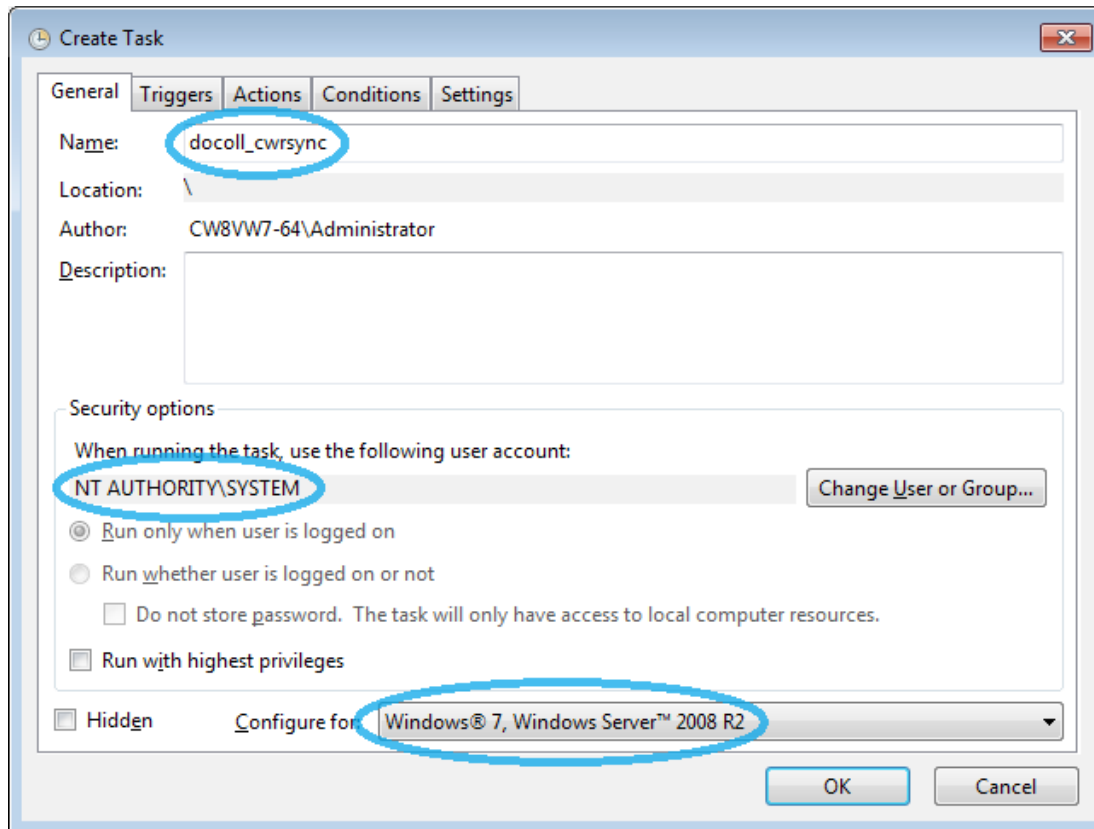
TODO: populate this section.

6.3 Windows 7

1. Administrative Tools → Task Scheduler → Actions → Create Task.



2.



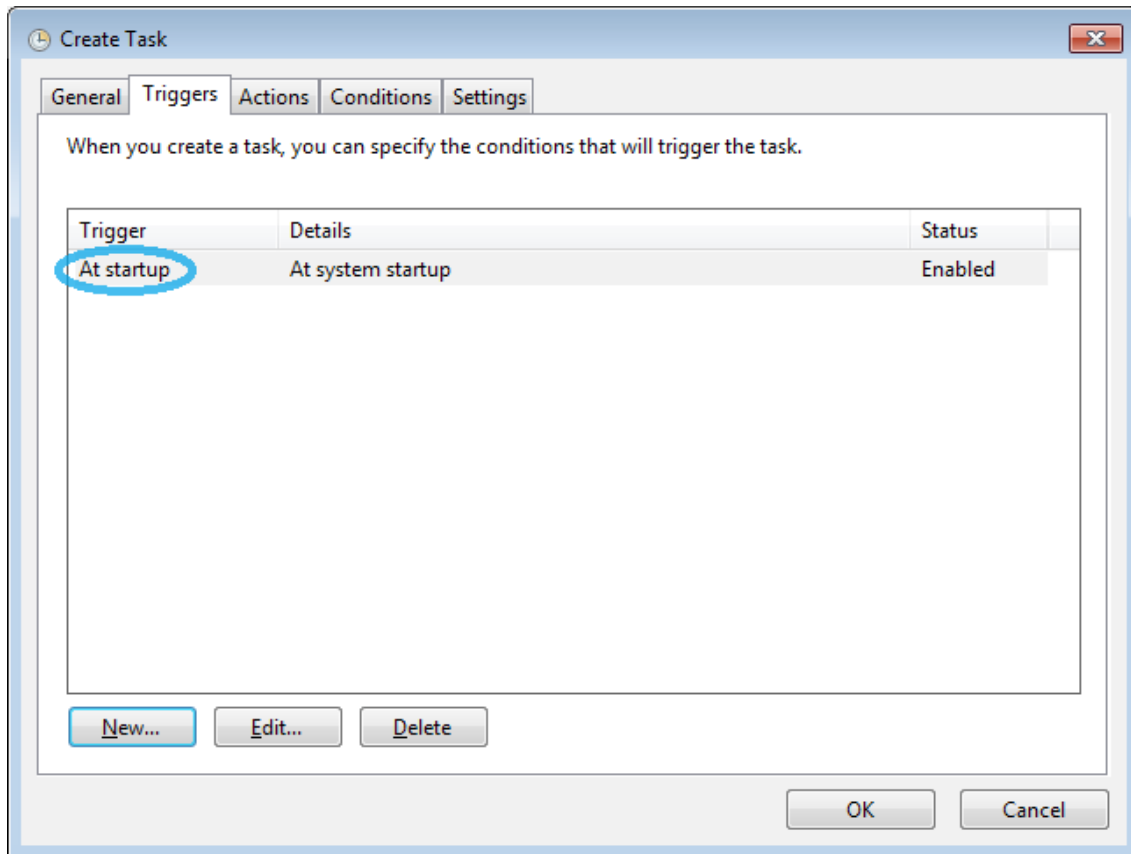
Name: docoll_cwrsync

Change User or Group → Advanced

"Find now" then select SYSTEM.

Configure for: Windows 7, Windows Server 2008 R2.

3.

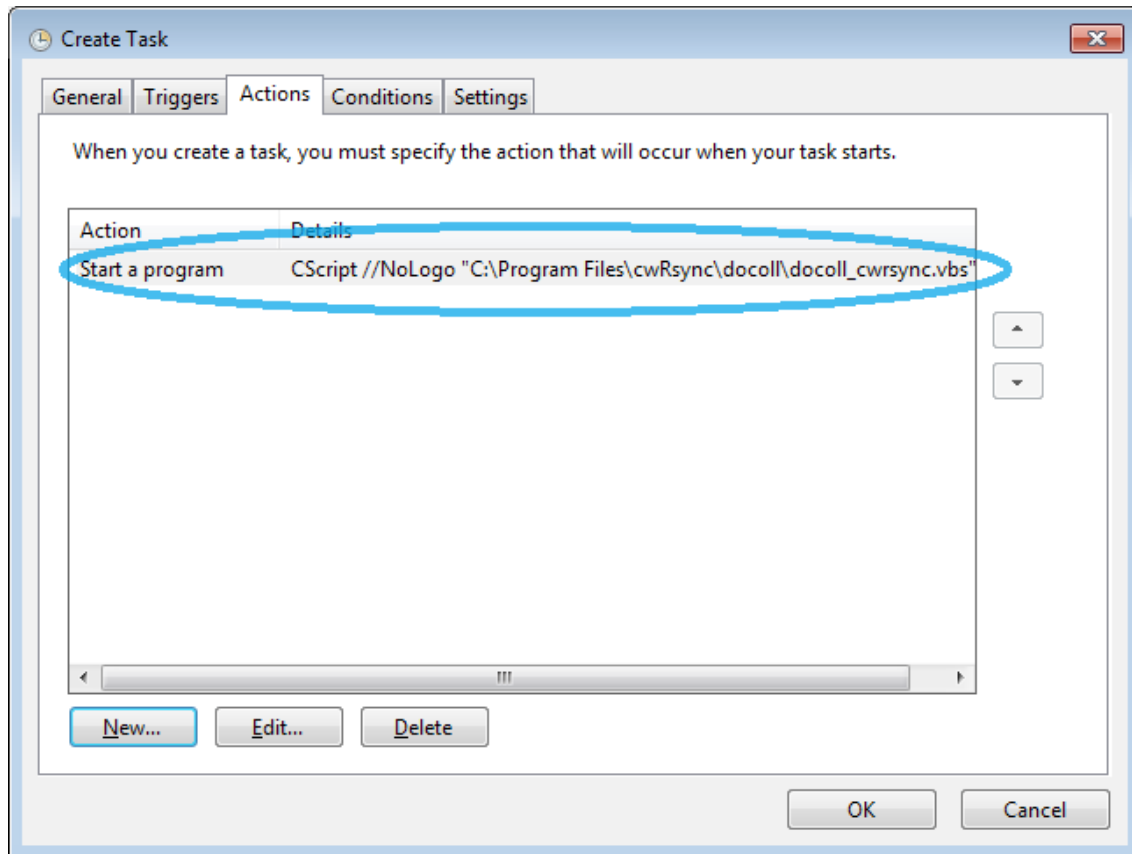


Triggers → New

Begin the task at: Startup (or when required to suit local conditions).

OK.

4.



Actions → New

Action: Start a program

Program/script: CScript

Add arguments:

32-bit systems: //NoLogo "C:\Program Files\cwRsync\docoll\docoll_cwrsync.vbs"

64-bit systems: //NoLogo "C:\Program Files (x86)\cwRsync\docoll\docoll_cwrsync.vbs"

OK

7 Testing

Restart Windows and review the logs the logs sub-folder of the docoll folder:

- docoll_cwrsync.<timestamp>.log
- rsync.<timestamp>.log.rtf. If rsync is still writing to this (or is hung), WordPad will not open it; it can be inspected by making a copy and opening the copy.

If those logs look OK, on the rsync server, check:

- The /srv/rsync/docoll/<instance name>/<client computer name>/ tree.
- The /var/log/rsyncd.log file.

8 Troubleshooting

The log files, docoll_cwrsync.<timestamp>.log and rsync.<timestamp>.log.rtf, may solve the problem.

If the logs do not solve the problem ...

Change the Scheduled Task "Run" field, adding the /D debug switch ...

```
CScript //NoLogo "C:\Program Files\cwRsync\docoll_cwrsync.vbs" /D
```

... and run the task, for example by restarting Windows.

If the debug information in docoll_cwrsync.<timestamp>.log did not solve the problem ...

Create this debugging script, "C:\Program Files\cwRsync\docoll\docoll_cwrsync.cmd". On 64-bit systems, change "Program Files" to "Program Files (x86)". Beware of line breaks; there are only three lines.

```
@echo off
echo %date% %time% %username% >> C:\docoll_cwrsync.log
%ComSpec% /c CScript //NoLogo "C:\Program Files\cwRsync\docoll\docoll_cwrsync.vbs" /D >>
C:\docoll_cwrsync.log 2>&1
```

Then change the Scheduled Task to ...

```
"C:\Program Files\cwRsync\docoll_cwrsync.cmd"
```

... and run the task, for example by restarting Windows. docoll_cwrsync.vbs will hang but there may be some useful clues in C:\docoll_cwrsync.log.

If C:\docoll_cwrsync.log did not solve the problem ...

Run docoll_cwrsync.cmd from a command prompt:

```
C:\Program Files\cwRsync\docoll>docoll_cwrsync.cmd
```

If that doesn't solve the problem, a developer's help is required.

8.1 Specific error messages

8.1.1 rsync

"chdir failed". A server problem. The /srv/rsync/docoll/<instance name>/<client name> directory does not exist, is spelled incorrectly or does not have the necessary permissions.

8.2 Online resources

- cwrsync home page: <http://www.itfix.no/i2/cwrsync>
- rsync error messages: <http://steven-linux.javaeye.com/blog/688243> and <http://www.rollingr.net/wordpress/2007/05/01/installing-and-running-rsync/4/>
- rsync mailing list archive: <http://lists.samba.org/archive/rsync>
- rsync man pages: <http://rsync.samba.org/ftp/rsync/rsyncd.conf.html> and <http://rsync.samba.org/ftp/rsync/rsync.html>

9 Appendix – GNU Free Documentation License

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