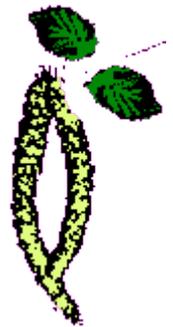


# **docoll Windows rsync client sysadmin guide**



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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 sysadmin guide"
- "docoll rsync pilot development log"

# 2 Prerequisites

## 2.1 Software

- docoll\_windows\_client-0.7.4.zip or docoll\_windows\_client\_all-0.7.4.zip.

docoll\_windows\_client\_all-0.7.4.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 [ITeF!x made in non-free](#). At that time version 4.2.0 was the latest release, released on 28 September 2001.

- .zip unpacker such as WinZIP or WinRAR.

## 2.2 Access

A member of the Administrators group.

## 2.3 Data

For each client ...

1. Windows computer name (exact upper/lower case)
2. A password. It must match the password configured in the server's rsyncd.secrets file for the client.

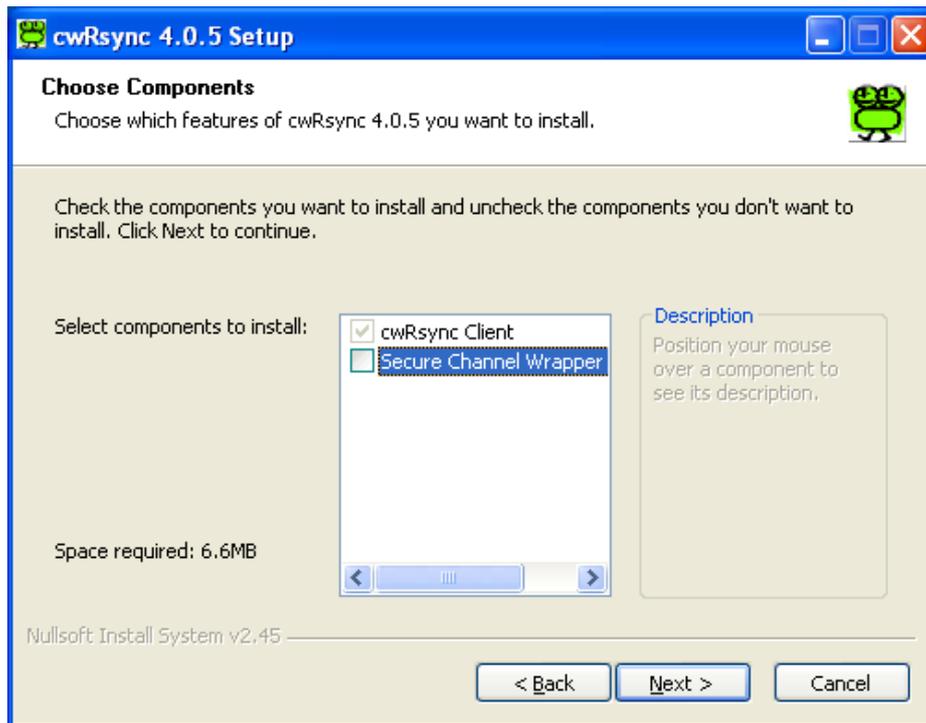
# 3 Installation

If using docoll\_windows\_client\_all-0.7.4.zip, extract docoll\_windows\_client-0.7.4.zip and cwRsync\_4.0.5\_Installer.zip.

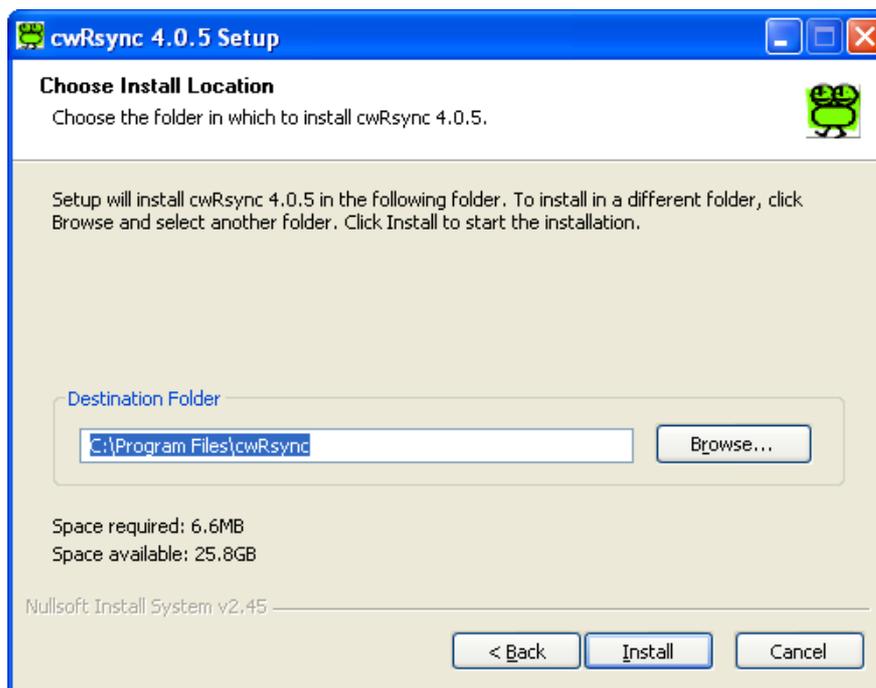
## 3.1 cwRsync

1. Ideally as Administrator 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) Accept the destination directory, normally C:\Program Files\cwRsync



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

## 3.2 docoll custom script and sample configuration files

Extract the contents of docoll\_windows\_client-0.7.4.zip into the same folder that cwRsync was installed into, normally C:\Program Files\cwRsync.

## 4 Configuration

Configuring the rsync server for each client is described in related document "docoll rsync server sysadmin guide".

Copy the three sample configuration files, normally in "C:\Program Files\cwRsync\samples" to the cwRsync directory 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, another configuration file is required and one is optional. For the C: drive these are:

<i>File name</i>	<i>Configuration items</i>	<i>Notes</i>
C_files_from.txt	Directory hierarchy or hierarchies to be synchronised	Required
C_include_from.txt	Directories and files to be included	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 the [ and immediately before the ] is ignored.
; Section names are not case sensitive

; Key lines
; Format:
; key name = value
; Whitespace either side of the = is ignored.
; Key names are not case sensitive.
; In a key name, - and _ are equivalent.
; Case is preserved in values.
; Whitespace within values is preserved.

; === GLOBAL SECTION ===
;
; 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 = 192.168.3.51

; A Password key is required.
; Its value must be the same as configured on the rsync server's rsync.secrets file 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

; 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) can be
; changed by the Log-directory key
; Log-directory = D:\Logs

; === DRIVES SECTION(S) ===
;
; A section is required for each drive containing files to be synchronised.
; Its name is the drive letter.
[C]
```

```
; A Files-from key is required
Files-from = C:\Program Files\cwRsync\C_files_from.txt

; An Exclude-from key is optional
; Exclude-from = C:\Program Files\cwRsync\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_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\_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

TODO: populate this section.

# 7 Testing

Restart Windows and review the logs, normally in the "C:\Program Files\cwRsync" 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 a debugging script, "C:\Program Files\cwRsync\docoll\_cwrsync.cmd" with this content (beware 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_cwrsync.vbs" /D >>
C:\docoll_cwrsync.log 2>&1
```

... change the Scheduled Task "Run" field, 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_cwrsync.cmd
```

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

## 8.1 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>

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