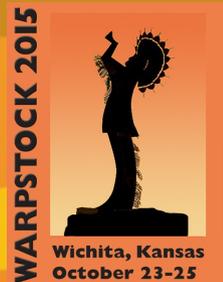


Samba for OS/2 and eComStation

Neil Waldhauer



Introduction

Samba for OS/2 and eComStation comes in two varieties, the client and the server. The client allows users access to a shared drive on another computer. The client is installed on eComStation by default.

Samba server allows users to share files with users on other computers on the local network. This presentation will concentrate on using Samba server.

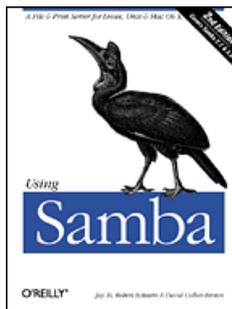
Credits

Samba for OS/2 and eComStation is intended to replace the IBM File and Print Services that came with OS/2.

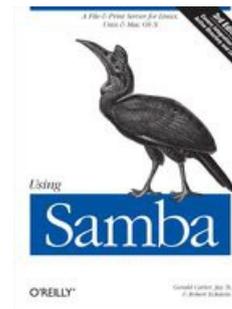
Samba is currently maintained by BitWise, Alex Taylor and Paul Smedley.

Books about Samba

The fine points of Samba configuration are tedious to learn. The O'Reilly press book may be helpful. The full text of the book is available on-line.



Using Samba, 2nd Edition
(free on-line)



Using Samba, 3rd Edition
(subscription required)

Samba Server Installation

The software can be downloaded from the Samba for eCS (OS/2) website.

<http://trac.netlabs.org/samba>

Samba Server version 1.1.4.804.

RxLib4Smb version 1.1.1

Set the TMPDIR environment variable.

Installation Files

The installation files for Samba are

Samba Server

<ftp://ftp.netlabs.org/pub/samba/server/samba-1-1-4-804.wpi> > (17,908,342 bytes)

Rexx Libraries

<ftp://ftp.netlabs.org/pub/samba/server/rxlib4smb.wpi> (1,154,898)

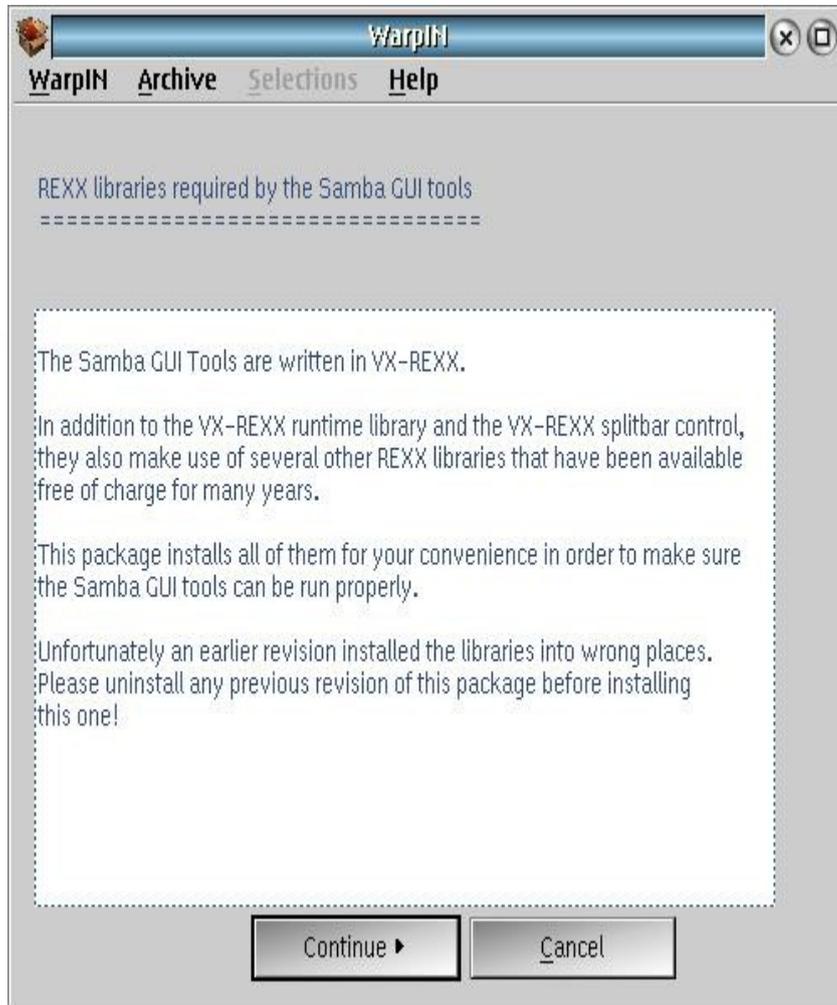
Installation details

Install the REXX Libraries first, then the Samba Server. At the end of the Samba Server installation, you will see a configuration screen in which you will set the administrator password.

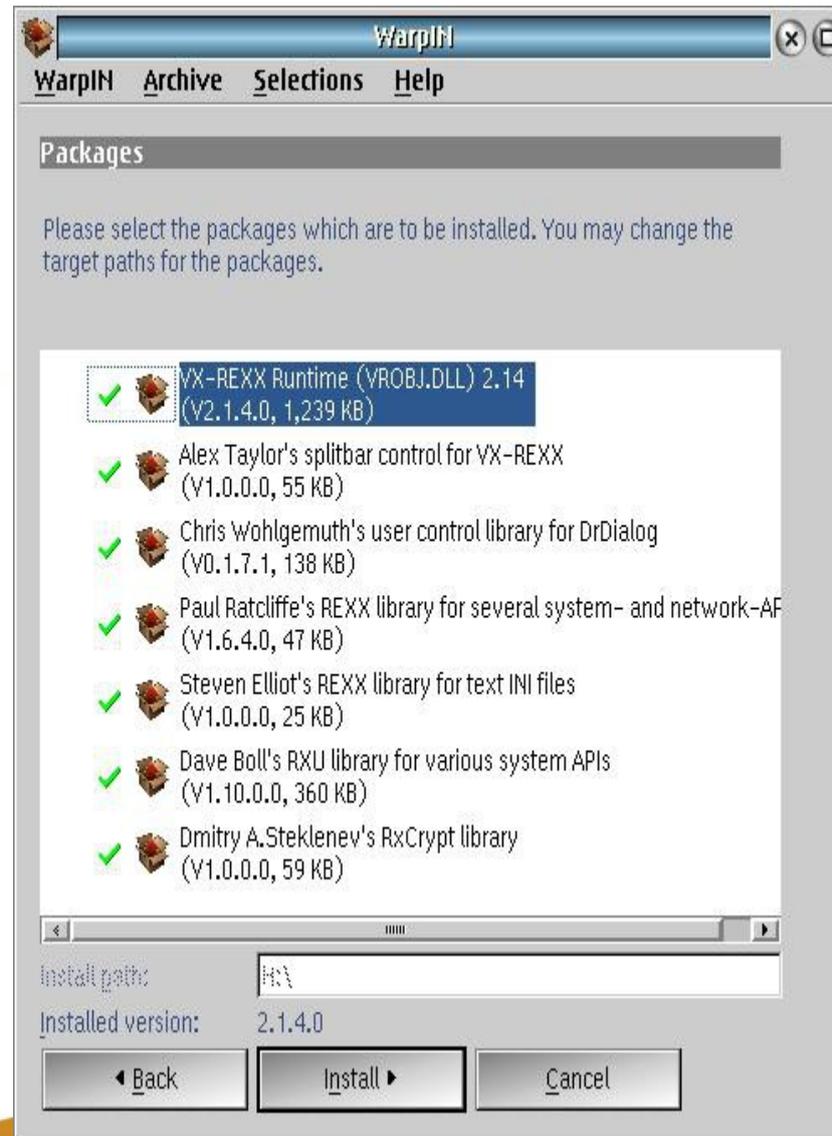
Installation Failures

If this configuration screen does not appear, or if you do not set an administrator password, then the installation has failed. Sometimes a second attempt to install will be successful. Other times, re-installing the prerequisite REXX libraries can help.

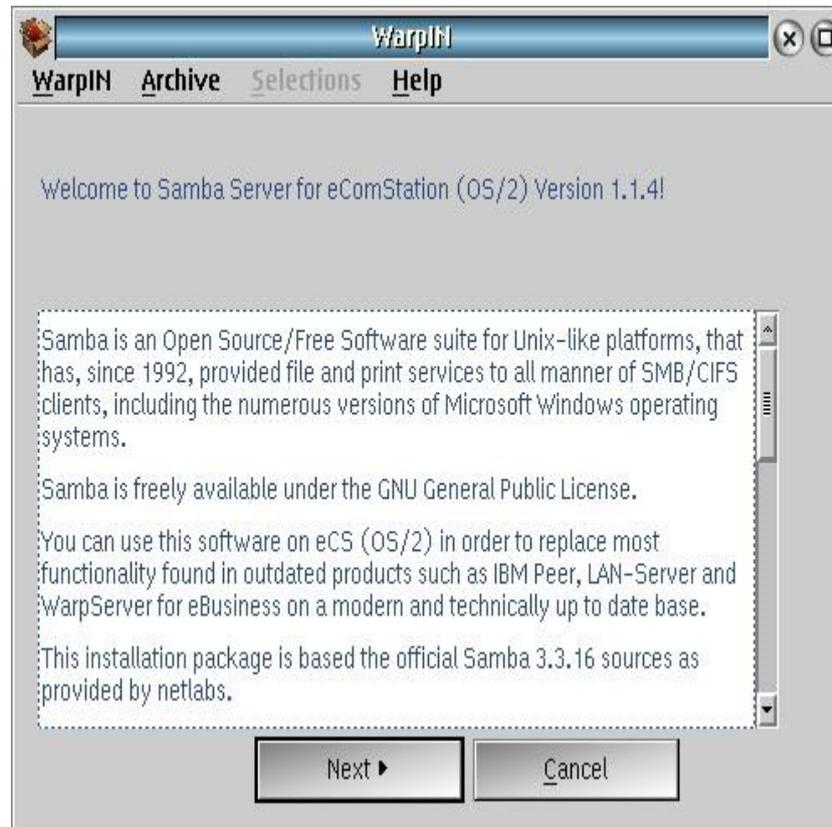
REXX libraries required by Samba



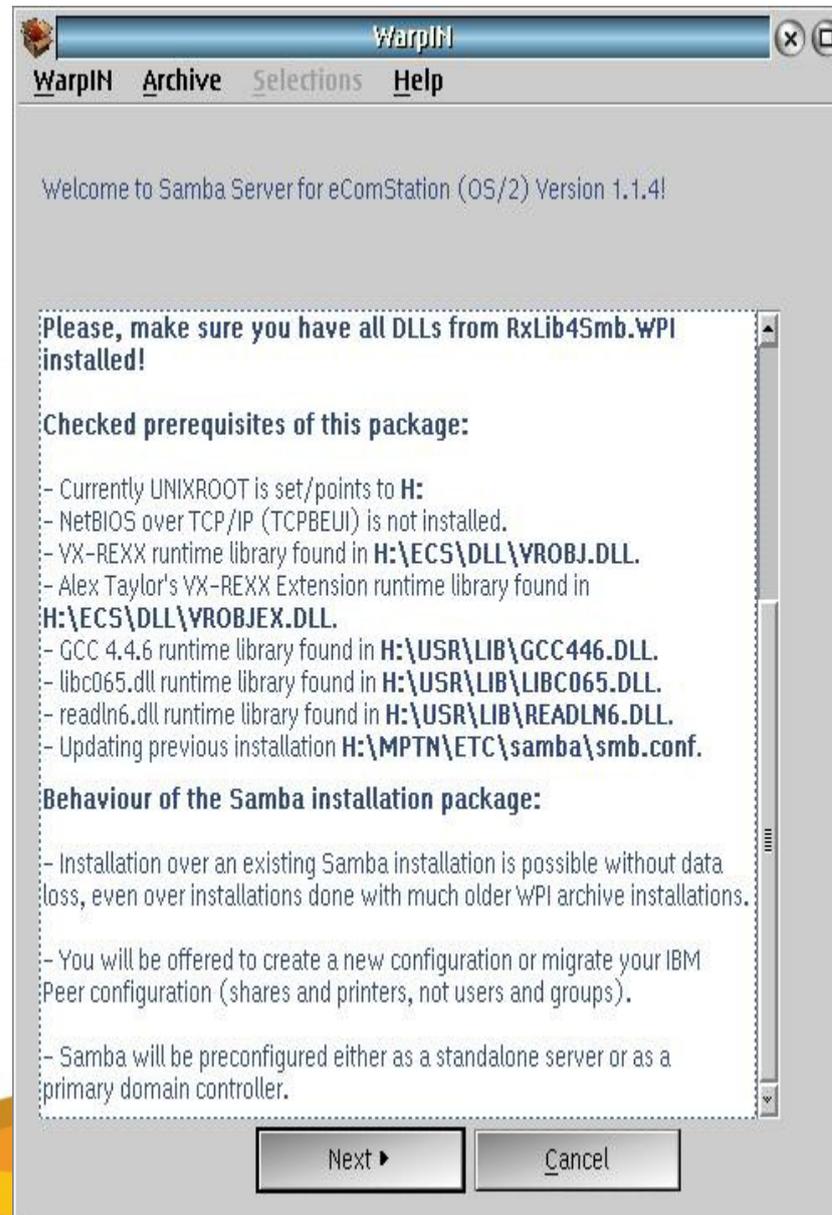
REXX Packages



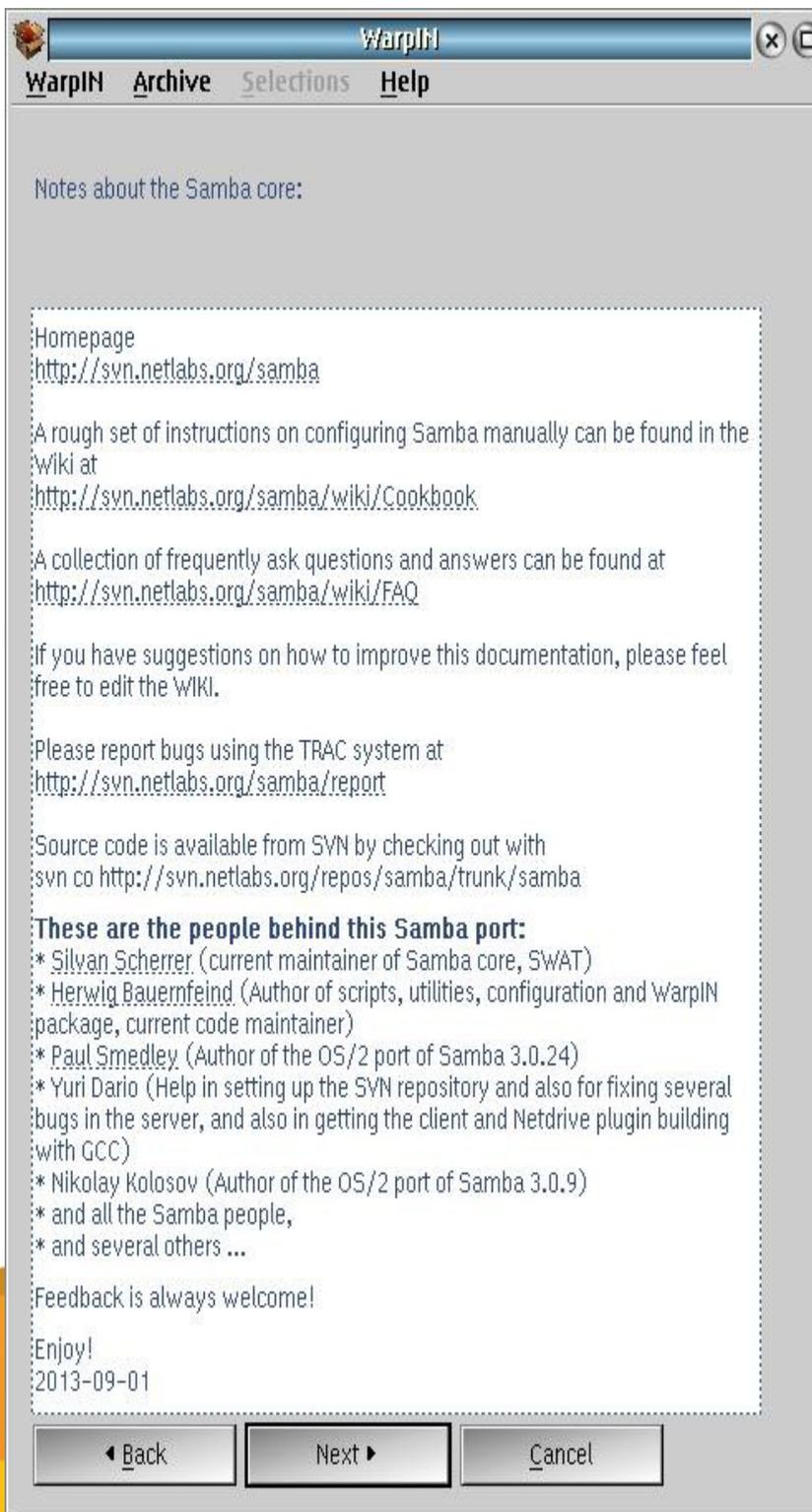
Samba Server for eComStation (OS/2)



Prerequisites



Notes on Samba



The screenshot shows a window titled "WarpIN" with a menu bar containing "WarpIN", "Archive", "Selections", and "Help". The main content area displays "Notes about the Samba core:" followed by a dashed-line box containing the following text:

Homepage
<http://svn.netlabs.org/samba>

A rough set of instructions on configuring Samba manually can be found in the Wiki at
<http://svn.netlabs.org/samba/wiki/Cookbook>

A collection of frequently ask questions and answers can be found at
<http://svn.netlabs.org/samba/wiki/FAQ>

If you have suggestions on how to improve this documentation, please feel free to edit the WIKI.

Please report bugs using the TRAC system at
<http://svn.netlabs.org/samba/report>

Source code is available from SVN by checking out with
svn co <http://svn.netlabs.org/repos/samba/trunk/samba>

These are the people behind this Samba port:

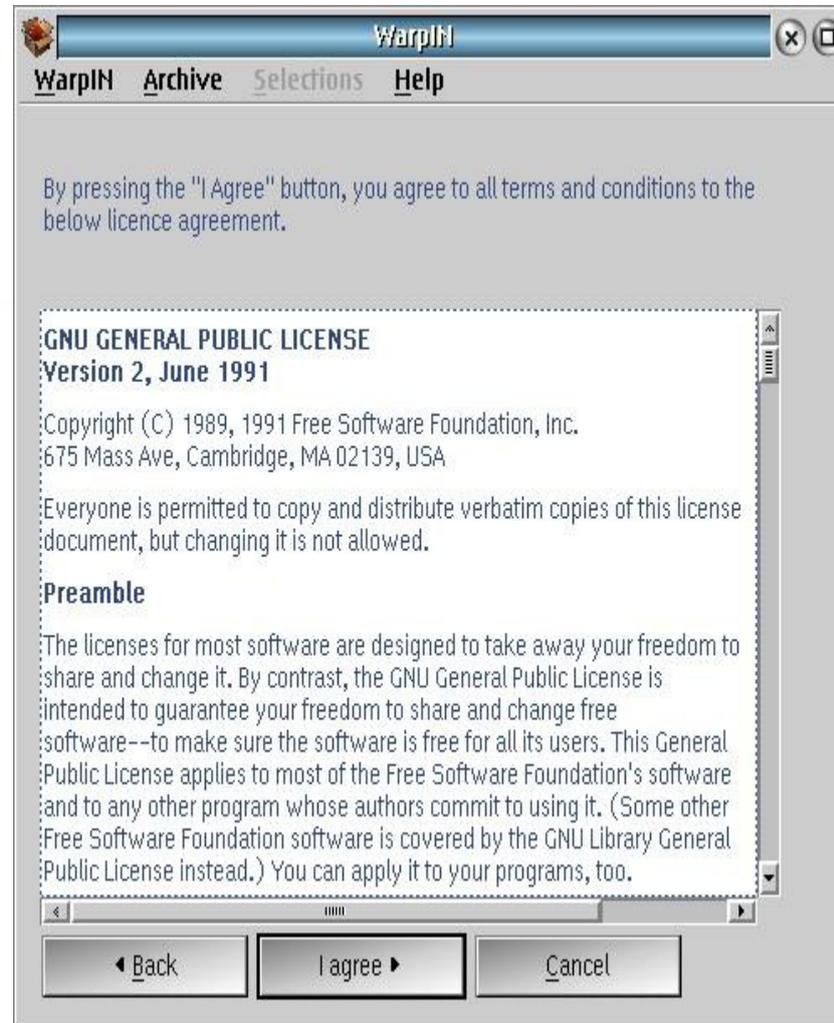
- * Silvan Scherrer (current maintainer of Samba core, SWAT)
- * Herwig Bauernfeind (Author of scripts, utilities, configuration and WarpIN package, current code maintainer)
- * Paul Smedley (Author of the OS/2 port of Samba 3.0.24)
- * Yuri Dario (Help in setting up the SVN repository and also for fixing several bugs in the server, and also in getting the client and Netdrive plugin building with GCC)
- * Nikolay Kolosov (Author of the OS/2 port of Samba 3.0.9)
- * and all the Samba people,
- * and several others ...

Feedback is always welcome!

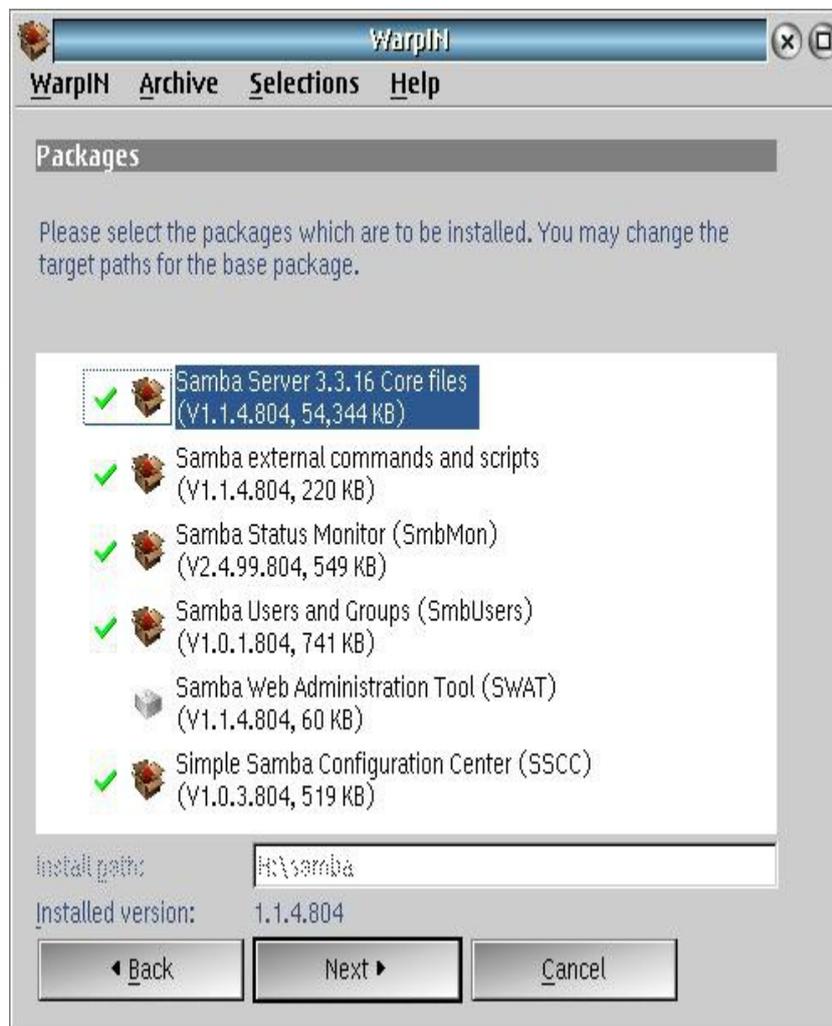
Enjoy!
2013-09-01

At the bottom of the window are three buttons: "Back", "Next", and "Cancel".

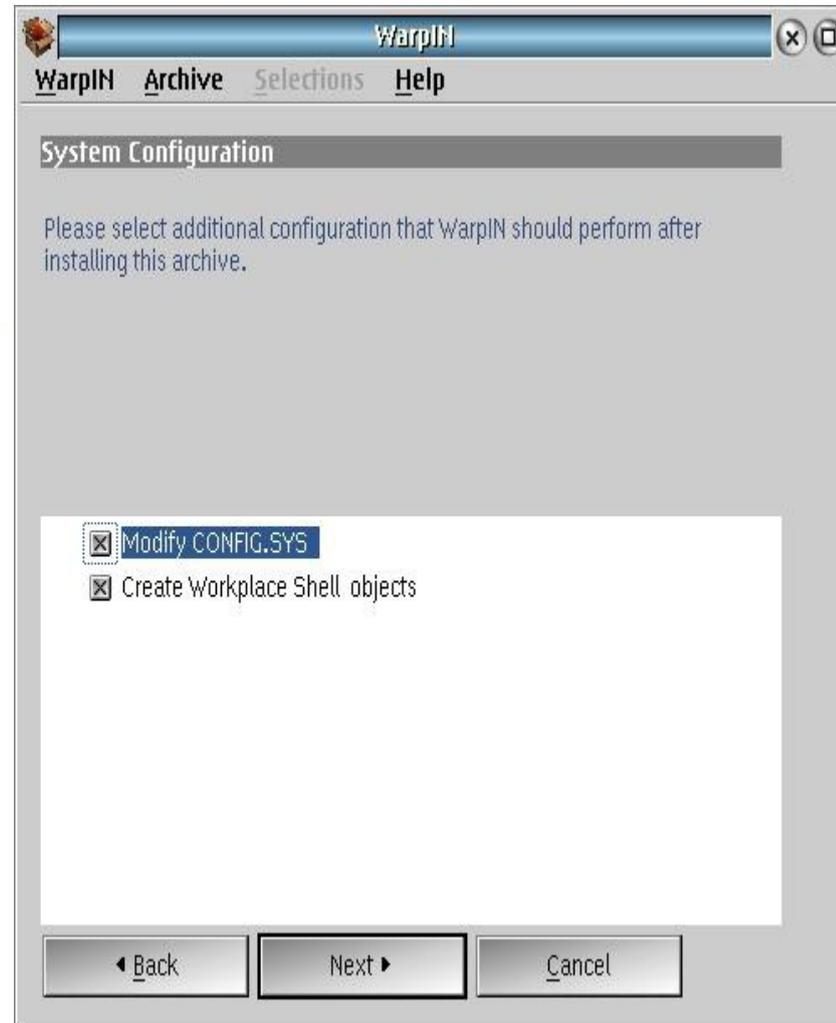
License



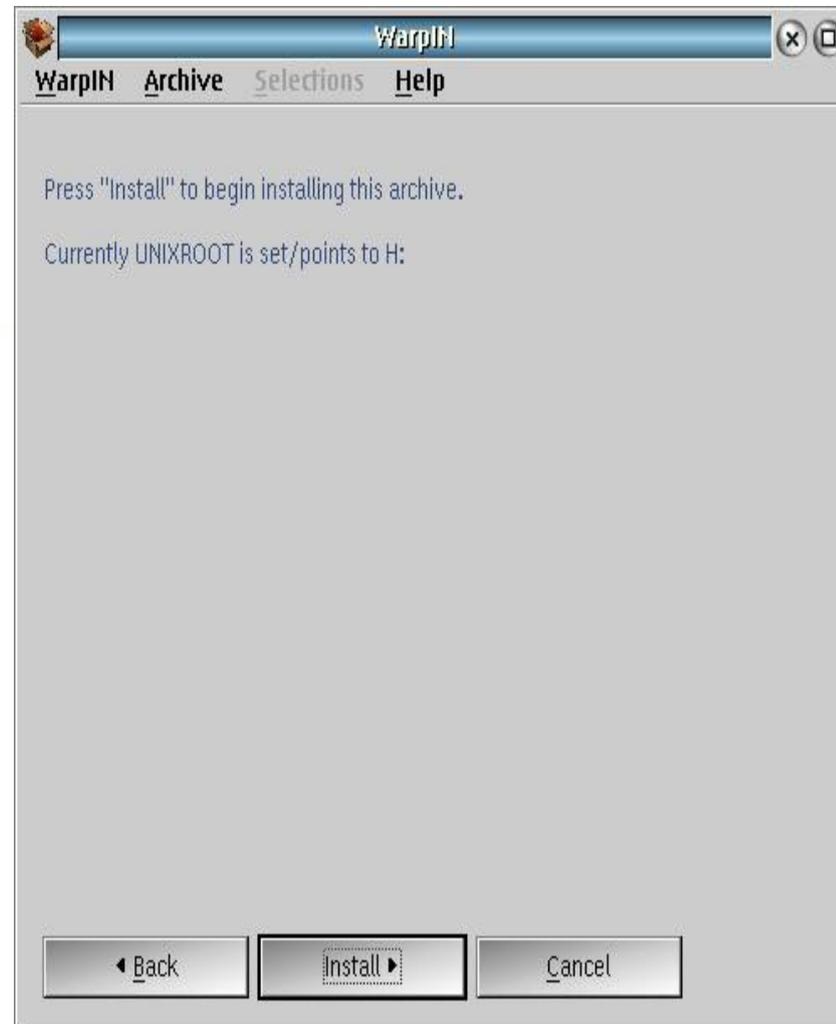
Packages



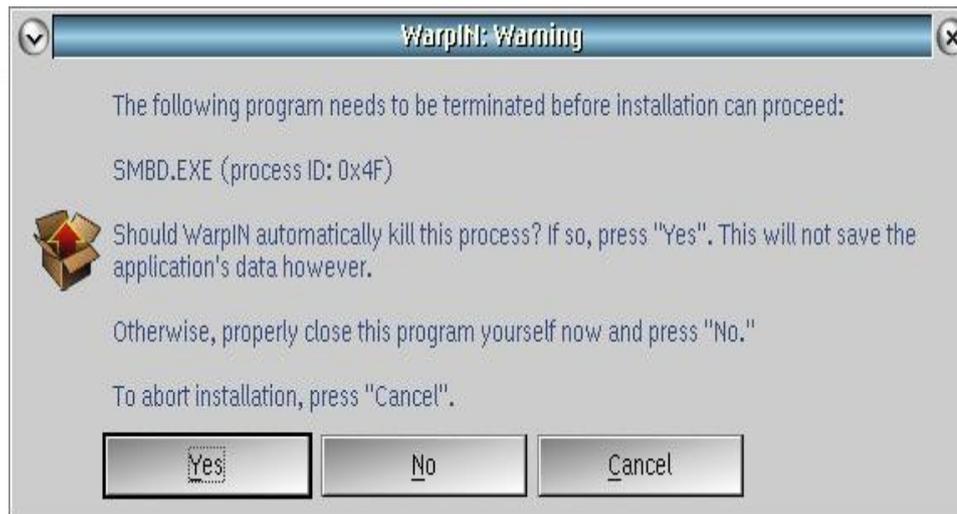
System Configuration



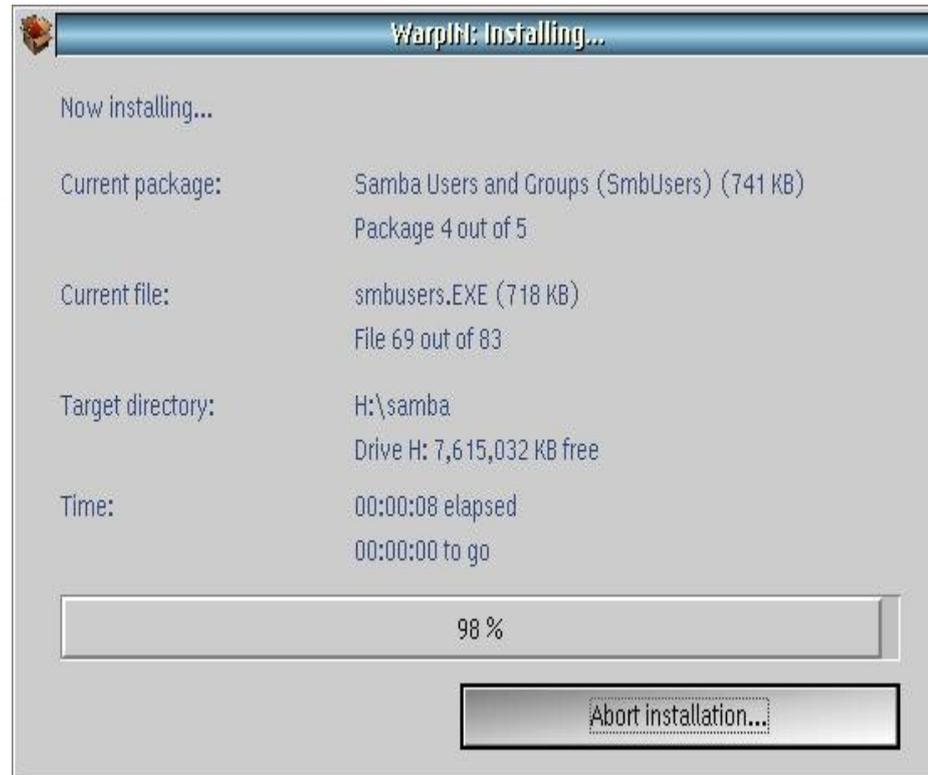
Environment variables



Terminating existing Samba Server before installation



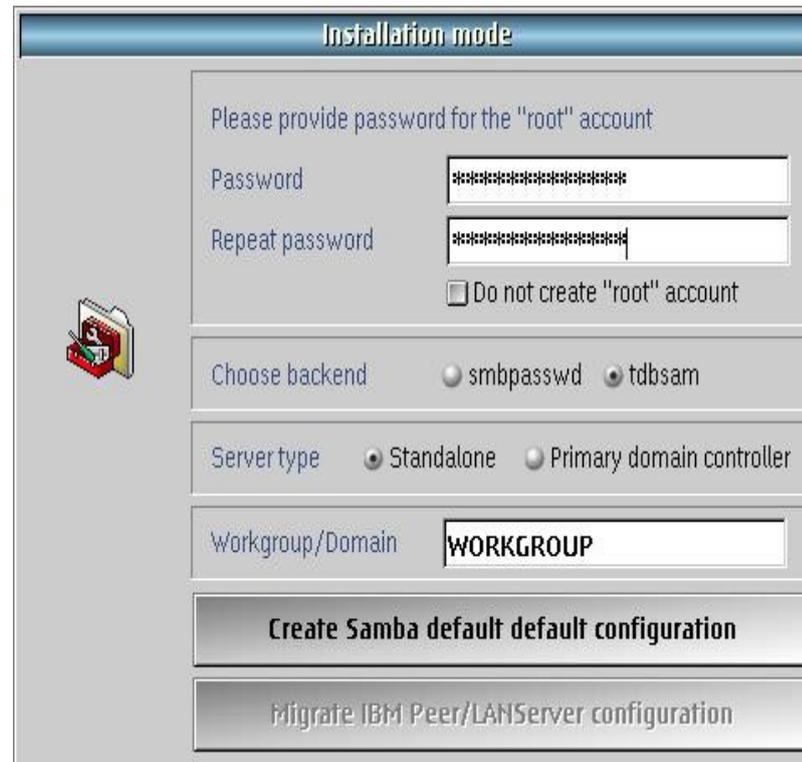
Installing...



Installation mode



root password



Installation mode

Please provide password for the "root" account

Password

Repeat password

Do not create "root" account

Choose backend smbpasswd tdbsam

Server type Standalone Primary domain controller

Workgroup/Domain

Create Samba default default configuration

Migrate IBM Peer/LANServer configuration

Setting up Samba to start every time

I prefer to set up Samba to start from the Workplace Shell Startup Folder. The script I use is shown below. I create a program object of the script, with the Samba installation directory as the working directory, and place it in the Startup Folder.

```
/* Script to start Samba on Blonde Guy server */  
say "wait 10 seconds before starting Samba"  
'sleep 10'  
say "starting Samba"  
call smb 'start'  
say "Samba started"  
return
```

Installation Complete

Restart the machine to let everything take effect, and Samba server is ready to configure.

Installing the client

Samba client software is installed by eCS 2.1 and newer. Since then, newer versions of the client have been released.

Samba client software can be found on the same website as the server files.

For OS/2, NetDrive is required. For eCS, the EVFS program supplied with the operating system will work.

Installation Files

Samba client plugin

ftp://ftp.netlabs.org/pub/samba/client/ndpsmb-2_2_0-Beta4-20140226.zip (1,754,798 bytes)

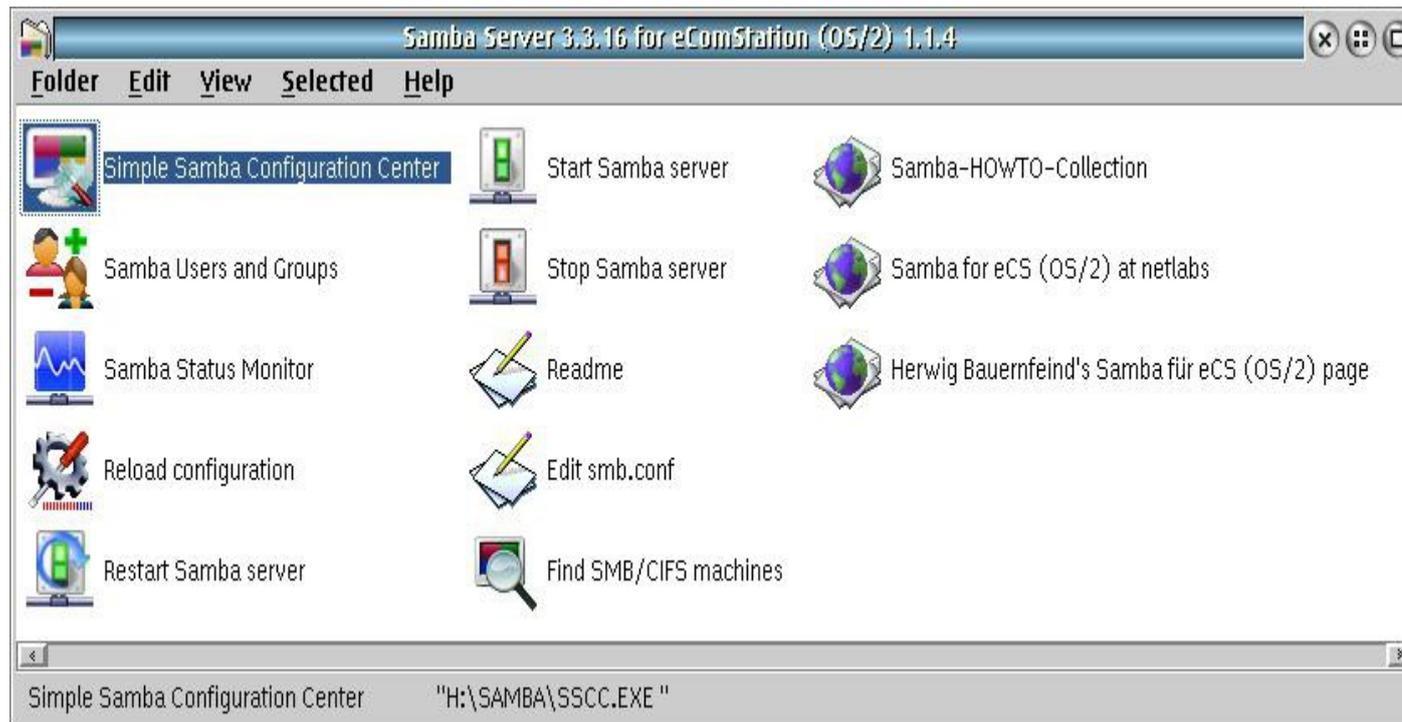
Samba client GUI

<ftp://ftp.netlabs.org/pub/samba/client/evfsgui/evfsgui-25RC7-20141213.zip> (1,154,898)

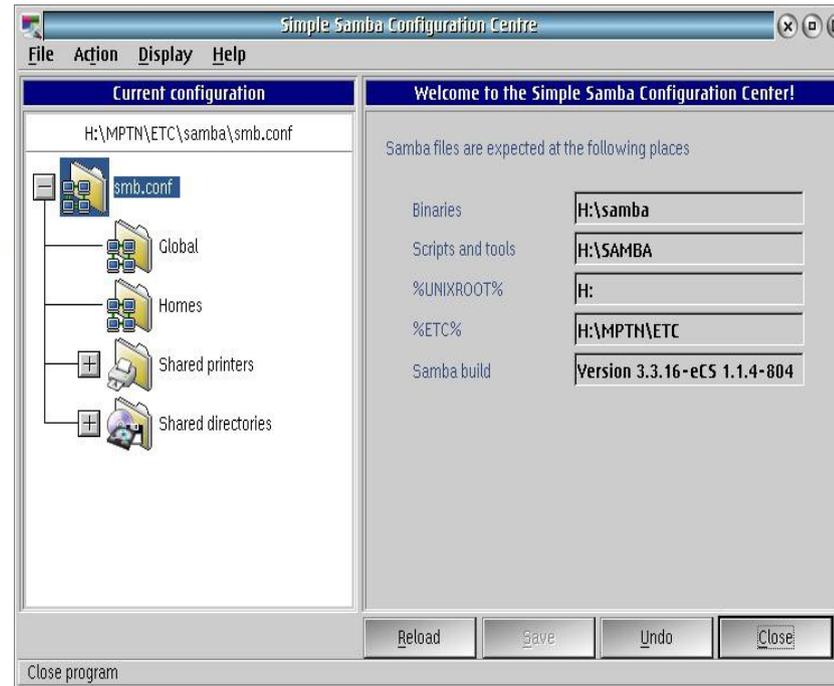
Samba client CLI

ftp://ftp.netlabs.org/pub/samba/client/smbclut/smbclut-1_1_2-760.zip (1,154,898)

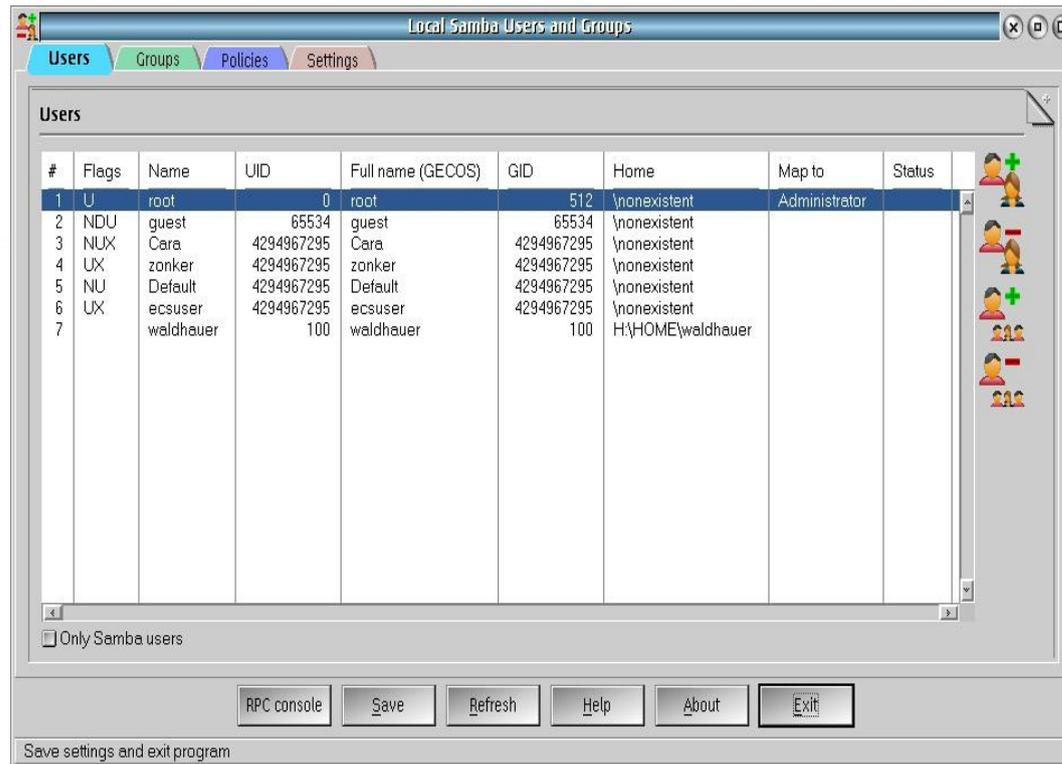
Server Programs



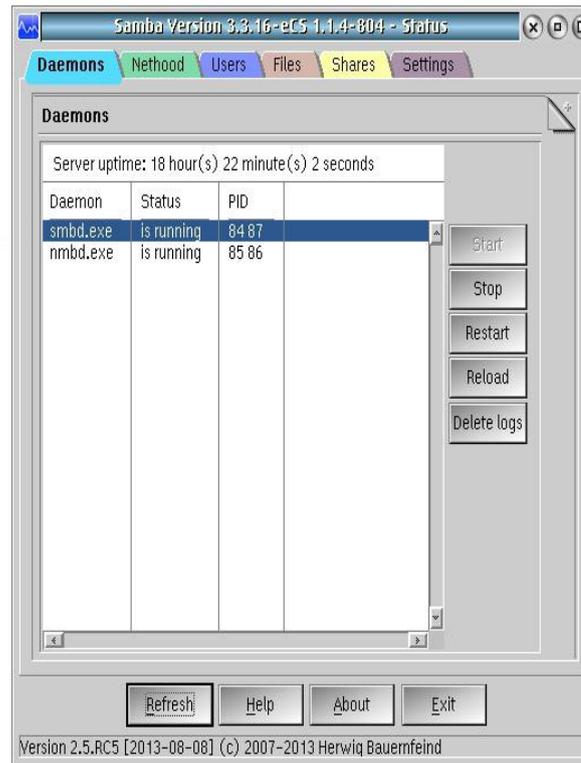
Simple Samba Configuration Center



Samba Users and Groups



Samba Status Monitor



Reload Configuration

After making configuration changes, Reload Configuration invokes a script to notify the running Samba server to use the new configuration.

Controlling Samba Server

Restart Samba Server

Uses the command line tool smb to stop then start the Samba Server.

Start Samba Server

Uses the command line tool smb to start the Samba Server.

Stop Samba Server

Uses the command line tool smb to stop the Samba Server.

Other Samba functions

Edit smb.conf

Directly edit the Samba configuration file `smb.conf`, which is in plain text.

Find SMB/CIFS machines

Uses the command line tool `FINDSMB` to find other machines that are visible on the local network.

Resources

Here are the resources for Samba networking on eCS and OS/2 that I have found on the web.

- OS/2 Release Notes has a nicely done article.
<http://os2notes.duckdns.org/os2win.html>
- OS/2 World forum discussion on installing Samba
<http://www.os2world.com/forum/index.php/topic,720.0.html>

EVFS command line

eComStation Virtual File System Command Line Utility, Version 1.0.5.5

(C) Copyright Blueprint Software Works, 2000-2006.

Syntax:

EVFSCLI command [parameters]

commands are: ATTACH, CHECK, CREATEMP, DELETEMP, DETACH, MOUNT, QUERY, REFRESH, UNMOUNT, WAIT.

EVFSCLI ATTACH x:

where x is the drive letter to be created.

Example: evfscli attach s:

EVFSCLI CHECK [period retries]

default values are period=10 (in seconds),
retries=infinity

Example: `evfscli check 1 5`

EVFSCLI CREATEEMP path

where path is the mount point to be created.

Example: `evfscli createmp s:\os2`

EVFSCLI DELETEMP path

where path is the mount point to be created.

Example: `evfscli deletemp s:\os2`

EVFSCLI DETACH x:

where x is the drive letter to be deleted.

Example: evfscli detach s:

EVFSCLI MOUNT

EVFSCLI MOUNT type mountpoint resource {R|W} [F]

where

type type of the resource;

mountpoint the mount point that the resource has to be mounted to (the mount point must exist already)

resource resource description;

{R|W} R for read only access, W for read/write;

[F] force mount and do not check whether the resource already exists in the mount point.

EVFSCLI QUERY

EVFSCLI QUERY {PATH | IFS | CTL | MOUNT
mountpoint}

Example: evfscli query mount s:\

EVFSCLI REFRESH path [S]

where

path the directory to be refreshed

[S] refresh subdirectories

EVFSCLI UNMOUNT

EVFSCLI UNMOUNT mountpoint index
where

mountpoint the mount point that the
resource is to be unmounted from;

index index of the resource to be
unmounted (0 - all resources).

EVFSCLI WAIT [wait_time retries]

default values are wait_time=10 (in seconds),
retries=3.

Example: `evfscli wait 1 5`

Samba command line example

```
/*mount a remote resource from command line.  
For the resource description, type out the evp  
file for the resource. */
```

```
evfscli attach r:
```

```
evfscli mount smbfs R:\
```

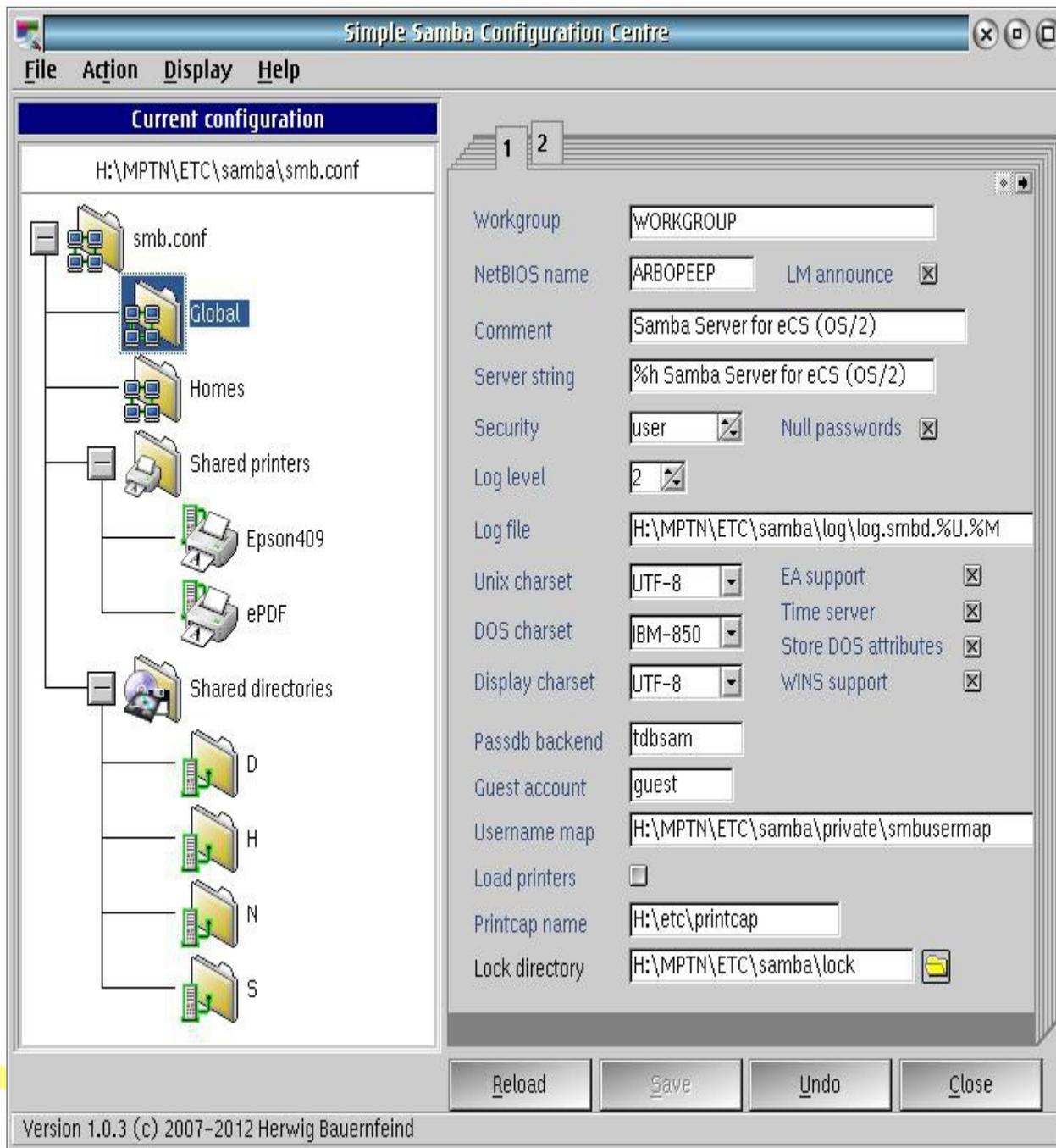
```
\\BEACH2:SERBOPEEP\JFS@zonker;WORKGROUP=BEACH2;  
SERVRBOPEEP;SHARE=JFS;USER=zonker;PASSWORD=;SPA  
SSWORD=666666666666664D6F726E696E6TER=WORKGROUP;M  
ASTERTYPE=1;CTO=10;CLD=32;EASUPPORT=1 W
```

Configuration file

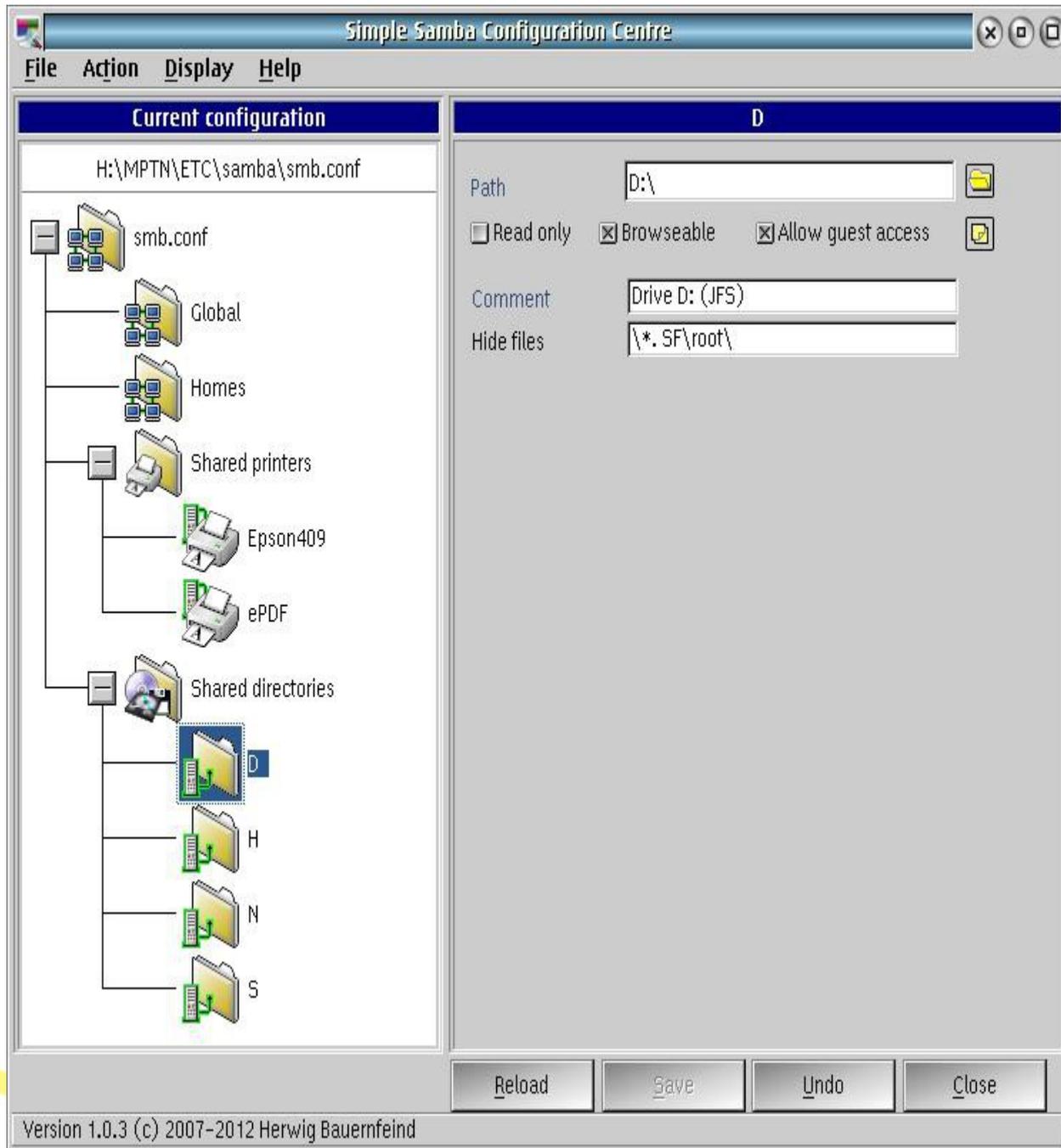
When Samba server starts, it reads configuration files that define what network resources are to be shared and which users and groups have access to those network resources.

The configuration file, `samba\smb.conf`, is located in the `%ETC%` directory.

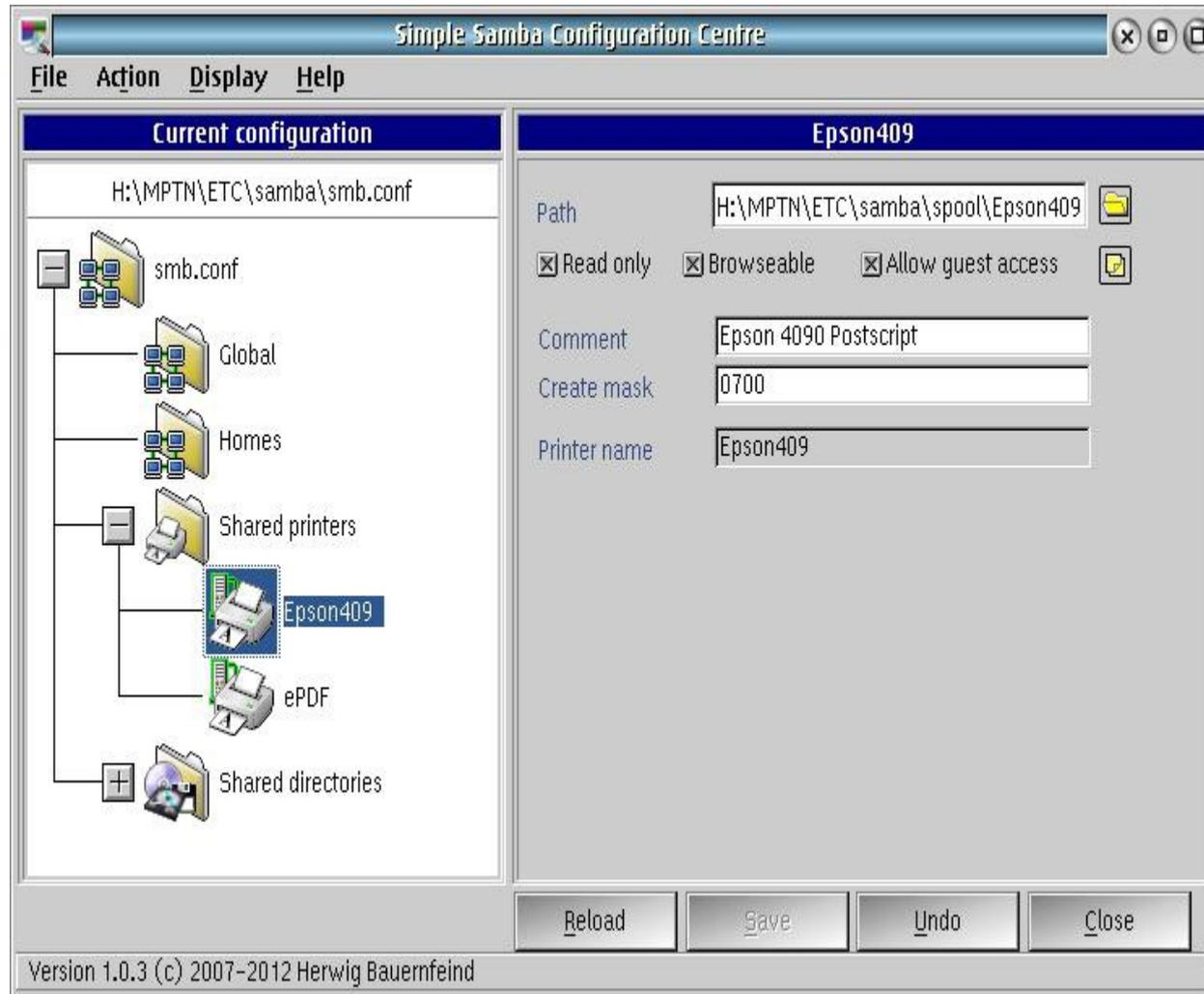
Shared Directories



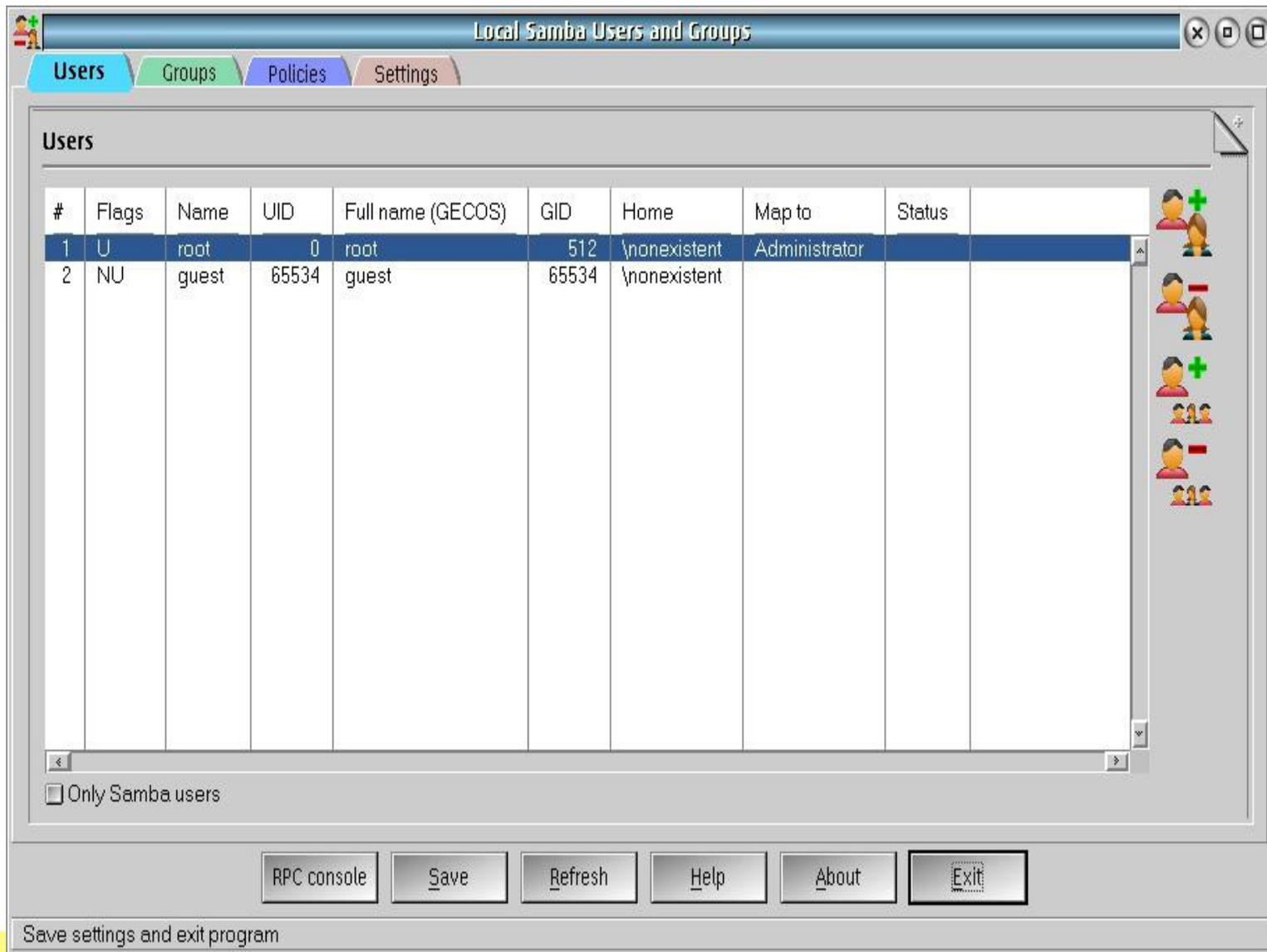
Configuring a shared directory



Shared Printers



Users and Groups



Add an administrator

Add user

New user: UID: 100 Only kLIBC user

Full name:

Account description:

Password: No Password

Repeat Password: Machine account

Allowed to use SWAT

Password does not expire

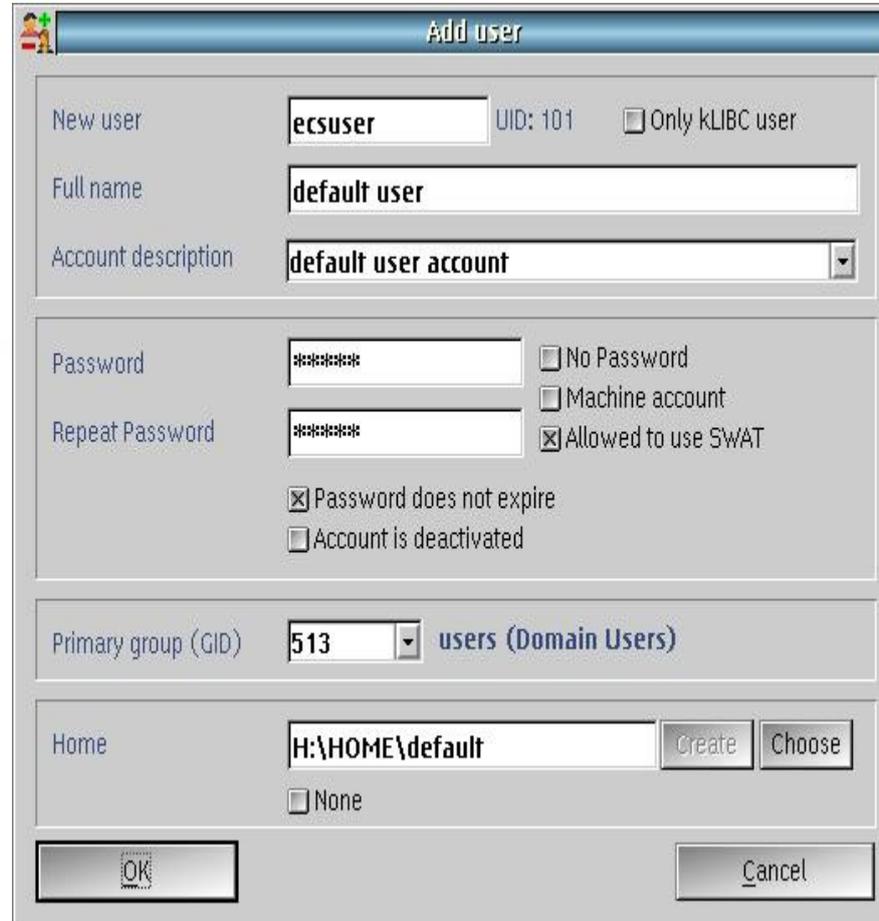
Account is deactivated

Primary group (GID):

Home:

None

Add a user



The screenshot shows a 'Add user' dialog box with the following fields and options:

- New user:** UID: 101 Only kLIBC user
- Full name:**
- Account description:**
- Password:** No Password
- Repeat Password:** Machine account
- Allowed to use SWAT
- Password does not expire
- Account is deactivated
- Primary group (GID):**
- Home:**
 None

Buttons at the bottom:

user list

The screenshot shows a window titled "Local Samba Users and Groups" with tabs for "Users", "Groups", "Policies", and "Settings". The "Users" tab is active, displaying a table of users. The table has columns for #, Flags, Name, UID, Full name (GECOS), GID, Home, Map to, and Status. The first row is selected, showing user "root" with UID 0 and GID 512. Other users listed include "guest", "zoner", and "ecsuser".

#	Flags	Name	UID	Full name (GECOS)	GID	Home	Map to	Status
1	U	root	0	root	512	\nonexistent	Administrator	
2	NU	guest	65534	guest	65534	\nonexistent		
3	UX	zoner	100	Neil Waldhauer	513	D:\Neil		
4	UX	ecsuser	101	default user	513	H:\HOME\default		

Below the table is a checkbox labeled "Only Samba users" which is unchecked. At the bottom of the window are buttons for "RPC console", "Save", "Refresh", "Help", "About", and "Exit". The window title bar includes standard OS window controls (minimize, maximize, close).

Conclusion

It's October 2015, and I've been using Samba successfully in my Local Network. I can interoperate between iOS, Linux, Mac OS, OS/2, eComStation and Windows.

I have not yet tested with Android, but it is likely to work.