

FacetWin® Security Pack Announced

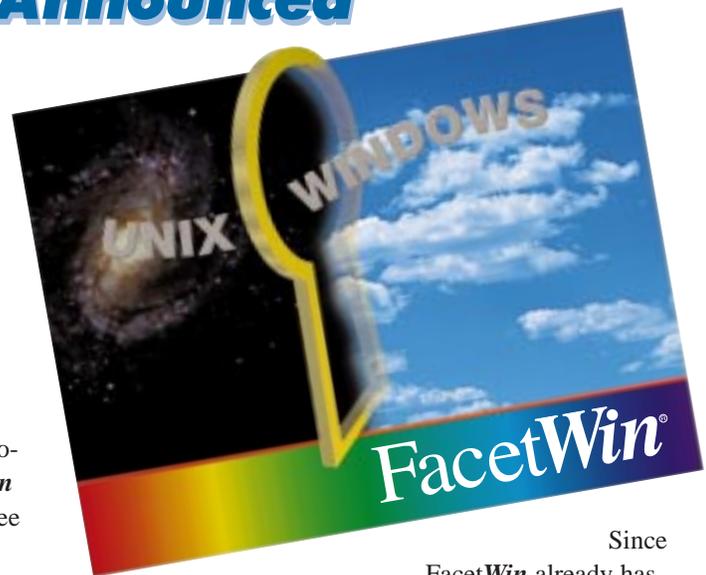
FacetCorp has announced a new supplement to FacetWin Version 3 to provide customers with secure terminal emulation sessions over the Internet and corporate networks. The FacetWin Security Pack is available for immediate ordering and delivery.

Before this release, only passwords were encrypted, and FacetWin customers would either have clear text emulation sessions over the Internet, or would set up a VPN (Virtual Private Network) to achieve private sessions. Users of other secure emulation products were required to

purchase relatively expensive client software for each user and to install and configure their servers with SSH or some other secure software. FacetWin is the only terminal emulator that is client/server based, and therefore already has the required UNIX server component installed. And, FacetWin Security Pack is available free to existing customers under FacetWin maintenance; or may be purchased by customers previously not under maintenance for a single 15% charge over the price of their standard FacetWin license.

FacetWin is the all-in-one Windows to UNIX integration solution that is priced like a single feature product. FacetWin features include terminal emulation, CIFS-based file services, bi-directional printer services, PC backup, Internet modem server, PC agent, and Simple Sign-On (SSO), all managed through a Windows administrator.

The FacetWin Security Pack provides full 56-bit DES (Data Encryption Standard) encryption for both login/passwords and the complete emulation conversation session. Each new emulation session encrypts differently based on a unique seed used for each conversation.



Availability and Ordering

Customers may place their orders now by contacting FacetCorp (www.facetcorp.com), or one of their authorized resellers. The FacetWin Security Pack is an optional add-on to FacetWin. Pricing is as follows:

- New FacetWin Customers:
Standard FacetWin license price (beginning at \$195 for one user) plus a maintenance fee (about 15% of the license price) which also puts the customer under upgrade maintenance for one year.
- Existing FacetWin Customers not Under Maintenance: Customer must purchase one-time maintenance (about 15% of the license price).
- Existing FacetWin Customers Under Maintenance: Free of Charge.

Since FacetWin already has a server component installed, there is no need for the customer to install and/or configure a new security package on the server. In addition, FacetWin's client/server implementation allows for use of the highly secure manual key exchange, as well as a fast and efficient encryption/decryption process.

"Adding the FacetWin Security Pack feature was simply driven by customer requirements," said Paul Vance, vice president and general manager for FacetCorp.

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How to Backup PCs

Introduction

FacetWin Version 3 featured a completely new PC Backup utility, used for backing up PC data files to a UNIX tape drive or disk archive. This new feature includes a backup server, a FacetWin Administrator property sheet tab, and a FacetWin Agent property sheet tab. The backup server resides on the UNIX system and is configured using the FacetWin Administrator, or by editing configuration files on the UNIX system. The FacetWin Administrator is a graphical administration tool installed on select PCs in the network. The FacetWin Agent is a program that runs on a PC that communicates with FacetWin servers on the UNIX host.

This article will present a step-by-step procedure for backing up the popular My Documents folder used on most PCs and the Microsoft Outlook file that contains important information such as a user's email and calendar data. All the FacetWin PC Backup features won't be covered, just the basic ones necessary for this example.

Requirements

In order to backup PC files to a UNIX tape drive, you will need a UNIX server with FacetWin Version 3 installed and a tape drive accessible to the UNIX server. Documentation on the tape drive would be helpful, as you will encounter some questions regarding things such as block size, etc. Also, the FacetWin Agent will need to be installed on each PC on the network that will be included in the backup. Optional, but useful, is the FacetWin Administrator that is typically installed on one or more of the PCs on the network. The Agent and Administrator can be installed on a PC either from the UNIX server using FacetWin file sharing or from the FacetWin CD-ROM.

A recommended network setting that is often overlooked during a FacetWin installation is the definition of the UNIX host as

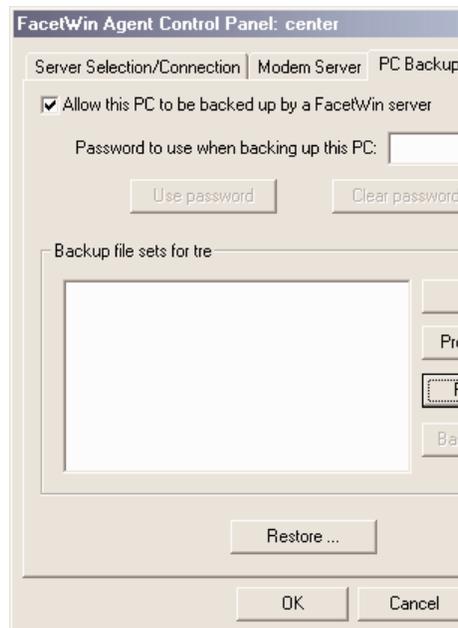
the WINS server if there is not a WINS server already in use on the network. This setting can be found under the **WINS Configuration** tab of the **TCP/IP** properties on Win95, 98, and Me PCs.

Finally, the PCs must be configured to allow the backups from the UNIX server. By default, the FacetWin agent is configured to deny PC backups by the UNIX server for security reasons. To allow FacetWin backups on a PC:

1. Double-click on the FacetWin Agent icon located in your PC's system tray (next to the clock).



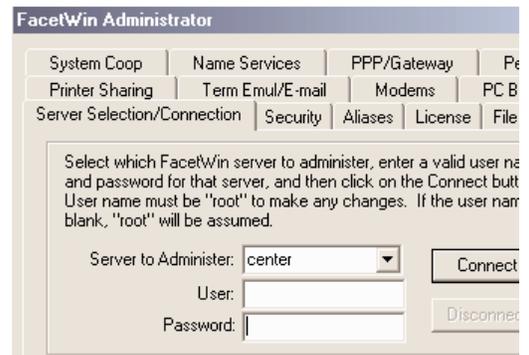
2. Specify the UNIX server name or IP address (the name should show up automatically if you have WINS setup properly!), a valid UNIX user, and the user's UNIX password, and click the Connect button.
3. The first thing under the **PC Backup** tab is a checkbox labeled **Allow this PC to be backed up by a FacetWin server**. Check this box and click **OK**.



Define the Tape Device

Setting up FacetWin to write to a UNIX tape drive is probably the trickiest part of this endeavor. First, you will need to know the UNIX device name of the tape drive. Second, specific information about the tape drive, such as the block size and tape capacity, must be known. It will be left to you, the system administrator, to know or determine this information. My test system is a SCO UNIX server, running OpenServer 5.0.5, with a Hewlett Packard SureStore 2000 4mm DAT drive. The device name is /dev/rStp0, the block size I'm using is 32768 bytes, and it will store up to 1.2 gigabytes of data on Maxell 60 meter tapes.

To tell FacetWin about the tape drive, start the FacetWin Administrator on a PC. The Administrator is located under the FacetWin program group (**Start/Programs/ FacetWin/FacetWin Administrator**).



Specify the name of the UNIX server to administer (the name of the UNIX box with the tape drive, where the backups will be defined). Once again, if WINS has been defined properly, the FacetWin servers will show up in the dropdown list. The user-name will need to be root, and then supply root's password. After hitting **Connect** and waiting for the Status: Connected to XXX message, select the **PC Backup** tab. Hit the **Tape Drives . . .** button, which is located near the bottom of the page. Up will pop the **Tape Drives** configuration page, where the **Add . . .** button needs to be selected. The **Tape Drives Properties**

page is now displayed, where the following information needs to be entered:

1. **Configuration name** - Make this one up. It should describe your tape drive in some way, such as DAT1 or QIC1. I called mine DAT1.2.
2. **Rewind device** - The device name of the tape drive. Mine is /dev/rStp0.
3. **Block size in bytes** - Needs to be an increment of 512, with a maximum of 32768. My HP documentation says to use large blocking factors to improve performance, so I entered 32768.
4. **Tape capacity** - a decimal number, such as 500 or 1.2. I'm using 60 meter tapes, so I entered 1.2 and checked **gigabytes**.

Clicking the 3 **OK** buttons will exit the **FacetWin** Administrator and will create the following file on the **FacetWin** server:

```
/usr/facetwin/Backup/tape.cfg
```

```
DAT1.2:/dev/rStp0:32768:1.2G
```

Instead of going through the **FacetWin** Administrator, you may create this file by hand on the **FacetWin** server.

Create a File Set

A file set refers to the set of files that will be backed up on a PC. My file set will include all the files in the My Documents folder plus the outlook.pst file, which is located in different folders on my Win95 and Win98 machines. To create the file set, start the **FacetWin** Administrator, login, and select the **PC Backup** tab. Clicking the **Add** button in the **File Sets** section will popup the **Properties of File Set** window. For the **File set name**, enter something descriptive. I called my fileset mydocs+outlook. I clicked the **Add** button below and entered `c:\my documents` and clicked **OK**. I did the same thing, this time entering `c:\windows\outlook.pst` and once more entering

```
c:\windows\local settings\
application data\microsoft\
outlook\outlook.pst .
```

Clicking **OK** all the way out of the Administrator will create the following file on the **FacetWin** server:

```
/usr/facetwin/Backup/filesets/mydocs+outlook.fsd
```

```
#
#FACETWIN FILE SET DESCRIPTION FILE
#
include_subdirectories=YES
include_files=c:\my documents
include_files=c:\windows\outlook.pst
include_files=c:\windows\local
settings\application data\
microsoft\outlook\outlook.pst
```

Create a Backup Set

A backup set refers to a set of one or more PCs that are backed up in a single backup operation. My backup set will include my Win98 PC called `tre_pc` and my Win95 PC called `test_tre`. To create the backup set, start the **FacetWin** Administrator, login, and select the **PC backup** tab. By now, you may be sick of going through this procedure. As you probably can tell, you do not need to exit the Administrator after defining the tape drive and file set. I just did it to get you used to the procedure. Clicking the **Add** button under the **Backup Sets** section will popup the **Properties of Backup** set window. The backup set name should be descriptive, either describing the group of PCs that are being backed up. I called mine `tre`. A **Summary** log is generally enough after you get your backups working, although when you first setup a backup you can select **Detail** logging so you can see what exactly is getting backed up. I usually call my log file by the same name as my backup set, so in this case, `tre.log`.

Next, click the **Add** button to add a PC to the backup set. Enter the name of the PC to backup (the name can be found under the Identification tab of the network properties

on the PC). I'm skipping the passwords for simplicity. I select the file set that was defined earlier, `mydocs+outlook.fsd`, and leave the defaults of **Full backup** and **Clear archive attributes**. After clicking **OK**, I added my other PC in the same manner. Clicking the **Backup to tape** selection enables the **Specify tape drive(s)** . . . button where I selected the tape drive added at the beginning. Saving the last index is fine. Finally, choosing a **Verification** option of **Archive** or **Bitwise**, with bitwise being the most complete, will add time to the backup, but will confirm your backup. Clicking **OK** all the way out of the Administrator will create the following file on the **FacetWin** server:

```
/usr/facetwin/Backup/backupsets/tre.bsd
```

```
#
#FACETWIN BACKUP SET DESCRIPTION FILE
#
server_logging=SUMMARY
server_logfile=tre.log
overwrite_logfile=YES
save_index_file=MOST_RECENT
verification=NONE
file_set=tre_pc mydocs+outlook.fsd
file_set=test_tre mydocs+outlook.fsd
tape_device=DAT1.2
```

Reseller Corner

Authorized **FacetCorp** Resellers receive many benefits. Contact Kyle Hudnell, Reseller Program Manager (reseller@facetcorp.com) for more information on such things as:

- In-house Security Pack Upgrade
- Marketing Programs
- Private Web Page Access
- Web DownLink Program
- Frequent Buyer Program

How to Backup PCs (cont.)

Run the Backup

First, make sure that the PCs that are to be backed up are on and logged in (Note: The FacetWin Agent must be running for the backup to work). The Administrator makes it pretty easy to run a backup: just login, select the **PC Backup** tab and select the backup set that was created. This will enable the buttons to the right, one of which is the **Backup Now** button. Clicking that button will popup the **Backing up** window which will update you on the backup being performed. The information that appears in this window will also be saved to the log file specified in the backup set. The message FacetWin Backup Server Exiting denotes the end of the backup.

Here is the syntax to run the backup I've set up here from the UNIX command line: `/usr/facetwin/bin/fct_bkup -b -F tre.bsd`

This command must of course be

FacetWin® Security Pack Announced (cont.)

“As more and more FacetWin customers began using the terminal emulator over the Internet, they were naturally concerned about the privacy of their employees’ emulator conversations. Larger corporations are also beginning to use this capability on their local and wide area networks.” Jay Anderson, president of Complete Computer Solutions, a FacetWin reseller said, “We have been using a beta version of the FacetWin Security Pack for several months now, and it works great. It’s not just a good idea over the Internet, it’s a good idea in most offices where clear text data could be obtained with any of the freely available network sniffers. Many of our customers are looking for this type of solution as an easier and cheaper alternative to a VPN.”

executed on the UNIX server where the backup was defined. The backup can be scheduled to run automatically with the UNIX cron facility. The -D option will need to be added to the command line to have the backup run as a daemon process with no interaction. An example crontab entry to run the backup is:

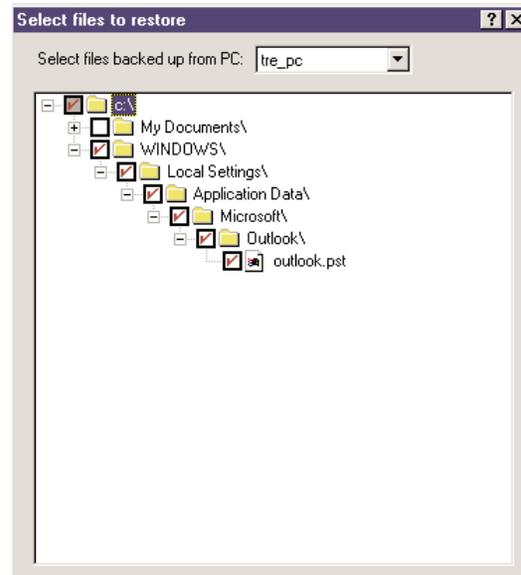
```
0 3 * * * 4 /usr/facetwin/bin/fct_bkup -b -F tre.bsd -D
```

This will backup my PCs every Thursday morning at 3:00AM, providing I remember to put a tape in my tape drive before I leave the office!

Restore a File

After setting up a backup, it’s always a good idea to practice restoring a file so that when the day your boss requests you to retrieve the RAISES.xls file, you won’t be caught off guard. The FacetWin Administrator makes the restore process very easy. Login to the Administrator and select the **PC Backup** tab. Down at the bottom is the **Restore** button, which, when clicked, pops up the **Restore files from a backup** window. Select **Restore from tape**, click the **Specify tape drive(s) . . .** button, and click **OK** to select the drive. Remember the mention of an index way back when defining a backup set? An index is a list of the files that were successfully backed up when the backup was created. The index is saved in a file, and also is saved on the tape. If the file no longer exists, then the index will need to be created from the information saved on the tape. So now, when you hit **Select files to restore . . .** button, you may or may not be prompted to create an index. Just answer **YES** if prompted. The **Select files to restore** window comes up. If multiple PCs were included in the backup set, select the PC that needs the file restored. And here’s where the Administrator and the nifty index come into play—just expand the folders and check off which files and or folders you want restored.

After clicking OK, click the **Restore now** button. The **Restoring** window pops



up and messages will appear giving the status of the restore. These messages will also be recorded in the restore.log file in the /usr/facetwin/Backup/logfiles directory. Also created will be a restore.fsd and restore.bsd in the filesets and backupsets directories that show the file structure for creating the necessary files to do a restore from the command line.

Further Documentation

The following sections can be found in both the FacetWin Version 3 manual and the FacetWin Help files installed on the PCs: Using FacetWin

- FacetWin PC Backup Overview Backing Up Your PC with the

AIX 5L Sneak Preview

Ssshhhh . . . Don’t tell anyone, but FacetCorp has already completed the FacetWin and FacetTerm ports for the soon-to-be-released IBM AIX 5L. This is the operating system that is the result of Project Monterey. Check out our web site for more details at www.facetcorp.com.

FacetWin Agent Control Panel

- FacetWin Agent PC Backup Tab of the Control Panel

Configuring FacetWin

- The FacetWin Administrator Program PC Backup Tab of the FacetWin Administrator
- Configuring Centralized PC Backups PC Backup Configuration Files Running the Backup Server Scheduling Unattended PC Backups

Restoring Files from a PC Backup

The FacetWin server also has man pages for fct_bkup, the FacetWin backup server, fct_bkutil, the backup utility program, and tape.cfg, the tape configuration file. And finally, the following sample files can be found on the FacetWin server:

```
/usr/facetwin/Backup/tape.sample
/usr/facetwin/Backup/backupssets/sample.bsd
/usr/facetwin/Backup/filesets/sample.fsd
```

Summary

The backup of important data is an essential part of any business, whether it's the customer database on a UNIX server or the company phone directory stored on someone's PC in a Notepad file. The PC Backup feature of FacetWin Version 3 provides an important tool to help customers minimize the risk of data loss.

All company names and product names referenced herein are trademarks of their respective companies.

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Regular Mail

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BRAIN TEASER



Three men, traveling with their wives, came to a river. There they found one boat, but it could only carry two people at a time. Since all the husbands are extremely jealous, no woman can be left with a man unless her husband is present. How do they cross the river? You can assume that each man has just one wife, and that each woman has one husband.



To get a hint, or see the answer to this brainteaser, please refer to our website: www.facetcorp.com, and click on BrainTeasers in the left frame.

Taken from Ben Hamilton, Brainteasers and Mindbenders, New York, New York: Simon & Schuster, 1992

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