



# Off Site Backup

## **Why worry about data?**

Who has a PC without any important data?

# Why worry about data?

Data is:

- As valuable as diamonds
- As fragile as a tomato
- And you can't see it

## Why worry about data?

Some data that is irreplaceable:

- financial records, receipts
- photos

## Assumptions for Data Loss

- Hard disk failure
- PC failure
- Operator error
  - Deletion error

# Common Backup Procedures

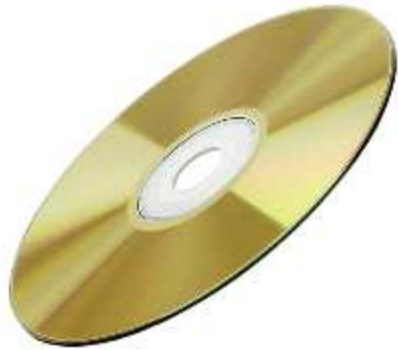


To CD / DVD



To External Hard Drive

## CD / DVD Backup



- Very Cost effective
- Easily stored
- Manual process
- Stored where?

# External Hard Drive Backup



- Higher cost than CD/DVDs
- Can be automatic process
- Cabling to PC
- Stored where?



## Common Backup Procedures

CD/DVD and external hard drive backups are effective for the assumed data losses

- hard disk failure
- PC failure
- Operator error

# The data loss not considered



Just like in the commercial computer industry;

Loss of the facility (RV) is the last thing considered

## **Common Backup Procedures**

CD/DVD and external hard drive backups are usually located where the computer is.

Loss of one means loss of both.

# Off-site Backup



Fifth-wheelers have the advantage of two “facilities”



But this is a very manual process.

## Off-site Backup

If you have a good highly available Internet connection, an Internet backup is highly recommended.

- Automatic backup
  - You don't have to remember
- Located in a facility that is safe from any hazard that could destroy your facility(RV)
- Not that expensive

# Internet Backup

How does Internet Backup work?

At the first startup, the data you choose to be backed up will be copied to the Backup Service

(Good time to be on free Wi-Fi)

After that, any changed file you chose will be copied to the service.

The copy process can be immediately as a file is closed or on a scheduled basis (example: middle of the night).

The copy service can be suspended when necessary.

# Internet Backup

How does Internet Backup work?

For most Backup Services, any file deleted on your PC will be deleted will be deleted from the Backup Service during update.

(i.e., the Backup Service is a mirror of your data)

This is the difference between “archiving” and “backup”. Archiving services will keep files deleted as well as generations of files.

(i.e. as files are changed, the old and new versions are retained)

# Internet Backup

Things to consider.

How much storage at the Backup Service will you use (GBytes)

- Some services are unlimited storage

- Some charge by the Gbyte of storage used

Is your Internet service data upload monitored?

- Air-Card (5 GB per month)

- .



# Internet Backup

## What to backup

- Data  
The irreplaceable stuff

## What not to backup

- Programs  
Usually needs to be reinstalled in a recovery anyways.
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# Problems with Internet Backup

If you wrongly deleted a file and know it right away, you can retrieve it from the Backup Service. After the backup process catches up, the deleted file will also be deleted from the Backup Service.

There can be files that are very large and are changed often. (example the tracking database for Picasa). If you are on a data traffic monitored Internet service, you might want to protect those files differently.

Your photos are not replaceable, the tracking database can be recreated.

## Why worry about data?

Your data is:

- As valuable as diamonds
- As fragile as a tomato
- And you can't see it

It needs to be stored someplace safe, and in your RV is not the place.

# Some Services

Brand	Link	Storage	Annual
<b>Carbonite</b>	<a href="http://www.carbonite.com/">http://www.carbonite.com/</a>	Unlimited*	\$54.95
<b>iBackup</b>	<a href="http://www.ibackup.com/">http://www.ibackup.com/</a>	10GB	\$99.50
<b>Mozy</b>	<a href="http://mozy.com/">http://mozy.com/</a>	Unlimited	\$54.45
<b>Mozy</b>	<a href="http://mozy.com/">http://mozy.com/</a>	2GB	free
<b>SOS Backup</b>	<a href="http://www.sosonlinebackup.com/">http://www.sosonlinebackup.com/</a>	2Gb	\$19.95
<b>SOS Backup</b>	<a href="http://www.sosonlinebackup.com/">http://www.sosonlinebackup.com/</a>	5GB	\$29.95
<b>SOS Backup</b>	<a href="http://www.sosonlinebackup.com/">http://www.sosonlinebackup.com/</a>	15GB	\$49.95
<b>Backblaze</b>	<a href="http://www.backblaze.com/">http://www.backblaze.com/</a>	Unlimited	\$50.00

# Discussion