

Introduction

Disk Manager is a security tool utilizing transparent encryption to protect important information stored on any Palm OS5 handheld. It encrypts and compresses all data placed in created virtual disk on your PDA device.

Disk Manager is able to create "**protected**" card on your Palm card or any existing External card and this card is protected with password that no one can break.

And what is more - thanks to the compression you can easily **increase the capacity of your Palm.**

Disk Manager enables you:

- create virtual storage cards on your PDA
- allocate space for virtual storage card in heap memory, storage memory or on other storage card (SD, Memory Stick, ...)
- compress data stored on virtual storage card
- protect virtual storage card with password
- encrypt data stored on virtual storage card with strong unbreakable cryptographic algorithm (AES 128 bit key, AES 256 bit key)

Disk Manager is a powerful utility helping users to protect confidential data stored in their PDA device. Disk Manager solves the problem when someone steals your device.

Minimal Requirements for Use

Run only on Palm devices with OS version 5.x

Technical support

For latest software updates, please visit <http://www.xxare.com>

You can access technical support information using support form on our website at <http://www.xxare.com> and by e-mail: support@xxare.com.

Installing Disk Manager

Important: Before installing any new software, run HotSync to back up data.

1. Unzip the `DiskManager.zip` file using the free Winzip, PKUnzip, Infozip or other such utility.
2. Double click on all “.prc” file and select your Palm user name from the list.
3. Click "Done" and then Hotsync your Palm.

After synchronization, tap on the Disk Manager icon on your Palm device to run it.

Upgrading Disk Manager

Important: Before upgrading any new software, run HotSync operation to back up data.

1. Double click on `Disk_Manager.prc` file and select your Palm user name from the list.
2. Click "Done" and then Hotsync your Palm.

After synchronization, tap on the Disk Manager icon on your Palm device to run it.

Removing Disk Manager

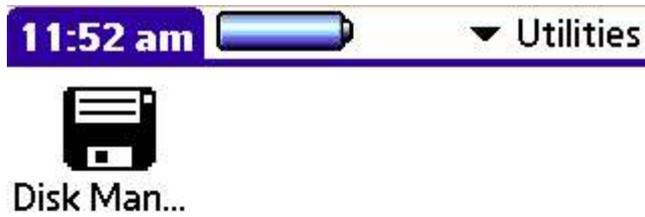
Important: Before removing Disk Manager, run HotSync to back up data.

1. Run Disk Manager on your palm
2. Remove all virtual disks
3. Delete Disk Manager software from your palm

Important: If you don't remove your virtual disks and delete Disk Manager from your Palm, none of your encrypted disks will work.

Using Disk Manager

Running Disk Manager



Locate Disk Manager on your Palm. Disk Manager looks like a diskette on your screen. Tap on the Disk Manager icon.

Note: You can use Disk Manager only on **Palm with OS version 5.x**.

Disk Manager interface



Welcome screen – you can see number of virtual slots used and number of virtual slots still available.

Note: Freeware version of Disk Manager is limited to 1 virtual slot only.

Disk Manager

Disk: ▼ SECURE 16MB

Virtual: YES, #2 of 4
Type: Permanent
Compression: NO
Encryption: YES, 128bit key
Size: 16777216 bytes
Host: NO Key: YES
.....
LibRef: 0003 Ref: 0002
Volume mounted: YES, 0003
.....

You can select disk from list to see more information about selected disk.

Slot	Volume	Options
Disk: ▼ PF		Refresh list Reset device Help About Disk Manager
Virtual:		
Type:		
Compression:	NO	
Encryption:	YES, 128bit key	
Size:	2097152 bytes	
Host:	YES	Key: YES
.....		
LibRef:	0006	Ref: 0002
Volume mounted:	YES, 0002	
.....		

Choose **Options – Help** for tips

Adding new slot

Slot	Volume	Options
Add		TECTED
Remove		
Virtual:	YES, #1 of 4
Type:	External
Compression:	NO
Encryption:	YES, 128bit key
Size:	2097152 bytes
Host: YES	Key: YES
LibRef: 0006	Ref: 0002
Volume mounted:	YES, 0002
.....		

Choose **Slot – Add** from menu

New virtual slot i

Name: |

Type: ▼ <select>

Size: ▼ <select>

Compression: ▼ <select>

Encryption: ▼ <select>

Timeout: ▼ <select>

Add **Cancel**

Enter parameters of your new virtual slot and tap **Add** to apply these settings.

You can tap **i** for quick help.

New virtual slot ⓘ

Name: max15characters

Type: Temporary
Permanent
External

Size:

Compression:

Encryption: ▼ <select>

Timeout: ▼ <select>

Add Cancel

Name must contain at least one alphanumeric character and can be 15 characters long

Type can be:

- Temporary – use heap ram, data are lost after soft reset
- Permanent – use storage ram, data are lost after hard reset
- External – use external card, data are lost after formatting host card or deleting host file

New virtual slot ⓘ

Name: max15characters

Type: ▼ Permanent

Size: 128kB
256kB
512kB
1MB
2MB
4MB
8MB
16MB ↓

Compression:

Encryption:

Timeout:

Add Cancel

Size of new virtual slot. For external type you need as much free space on destination card as big virtual disk you are adding.

Note: Freeware version of Disk Manager is limited to 4MB.

New virtual slot ⓘ

Name: max15characters

Type: ▼ External

Size: ▼ 128MB

Compression: No compression

Encryption: Best speed

Timeout: Normal

Best compression

Add Cancel

Compression – when selected, all data will be transparently compressed, so actual allocated space should be less than total amount of data stored on virtual card.

New virtual slot ⓘ

Name: max15characters

Type: ▼ External

Size: ▼ 128MB

Compression: ▼ No compression

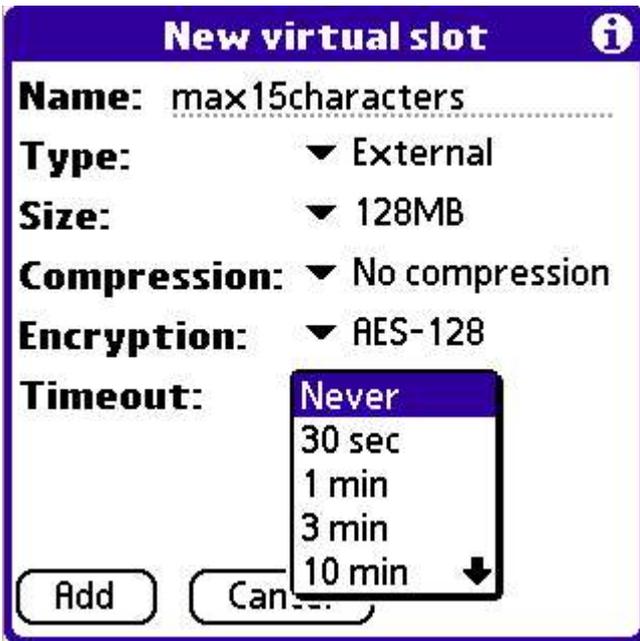
Encryption: No encryption

Timeout: AES-128

AES-256

Add Cancel

Encryption – when selected, all data will be transparently encrypted, so no one without password can read nor write protected data.



Timeout – required for encrypted disks. After defined time period of inactivity encryption/decryption key is removed from memory.

Note: Freeware version of Disk Manager is limited to 30 sec.



If encryption is enabled, entering new password is required. **Password** can be up to 32 characters long.

Note: Freeware version of Disk Manager is limited to max 2 characters long passwords.

Disk Manager

Disk: ▼ <select disk from list>

Virtual slots used: 1

Virtual slots available: 3



After tapping **Add** button, when new virtual slot is added successfully, confirmation dialog shows up. You can tap **OK** (recommended) to format just added virtual card or tap **Cancel** to leave it unformatted.

Note: Formatting of protected card require entering valid password even if decryption key is cached. This is additional protection so no one without password knowledge can format protected card.

Removing virtual slot

Slot	Volume	Options
Add		PROTECTED
Remove		
Virtual:	YES, #1 of 4	
Type:	External	
Compression:	NO	
Encryption:	YES, 128bit key	
Size:	2097152 bytes	
Host: YES	Key: YES	
LibRef: 0006	Ref: 0002	
Volume mounted:	YES, 0002	

Choose **Slot – Remove** from menu

Note: You must select virtual disk from disk list first. Selected virtual disk will be removed.

Disk Manager
Disk: ▼ PROTECTED
Virtual: YES, #1 of 4
Type: External
Compression: NO

Remove virtual slot

 **All data on card will be lost!**
Do you really want to remove slot?

If you tap **Yes**, virtual slot will be removed. All databases used by this slot will be deleted. Host file (when type virtual slot was external) will be deleted.

Note: Removing of protected card require entering valid password even if decryption key is cached. This is additional protection so no one without password knowledge can remove protected card.

Hiding mounted volume

Slot	Volume	Options
Disk: \	View	
	Hide	
	Mount	
Virtu:	ES, #1 of 4	
Type:	Temporary	
Compression:	NO	
Encryption:	NO	
Size:	1048576 bytes	
Host: NO	Key: NO	
LibRef: 0006	Ref: 0002	
Volume mounted:	YES, 0002	

Choose **Volume – Hide** from menu

This option allows you to choose which available external and virtual cards will be visible to other applications. Many existing applications are not fully compatible with more cards, so this option is often only way to enforce such application work with virtual cards.

Note: You must select disk with `Volume mounted: YES` from disk list first.

Mounting hidden volume

Slot	Volume	Options
Disk: \	View	_11_Driver>
	Hide	
	Mount	
Virtu:	ES, #1 of 4	
Type:	Temporary	
Compression:	NO	
Encryption:	NO	
Size:	1048576 bytes	
Host: NO	Key: NO	
LibRef: 0006	Ref: 0002	
Volume mounted:	NO	

Choose **Volume – Mount** from menu

This option allows you to mount previously hidden volume.

If just mounted volume is formatted launcher will appear, showing actually mounted card.

If mounted volume is not formatted, format dial will appear.

Note: You must select disk with `Volume mounted: NO` from disk list first.

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