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GPMICRO, INC.

dinKumTM Data Backup Software

User Manual

DINKUM DATA BACKUP SOFTWARE

User Manual

© GPmicro, Inc. 2012
1050 East Flamingo Road • Suite E219
Las Vegas, NV 89119
Phone 702.737.5600 • Fax 702.737.4604
Toll Free 877.280.1210

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A. 7-zip compression utility

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B. CsizingControl Bar Utility Version 2.44

Created Jan 24, 1998

Last Modified: March 31, 2002

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C. SystemTray

SystemTray.h: header file

Written by Chris Maunder (cmaunder@mail.com)

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D. BCMenu

By Brent Corkum

BCMenu.h: header file - Version: 3.033

Date April 2002

Author Brent Corkum

Email: corkum@roscience.com/~corkum/BCMenu.html

Latest Version: <http://www.roscience.com/~corkum/BCMenu.html>

Bug Fixes and portions of code supplied by:

Ben Ashley, Grish Bharadwaj, Jean-Edouard Lachand-Robert, Robert Edward Caldecott, Kenny Goers, Leonardo Zide, Stefan Kuhr, Reiner Jung, Martin Vladoic, Kim Yoo Chui, Oz Solomonovich, Tongzhe Cui, Stephane Clog, Warren Stevens, Damir Valiulin, David Kinder, Marc Loiry.

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Getting Started

1. System Requirements

The following minimum system requirements are recommended:

PC with 1 GHz processor (CPU) or faster

Windows XP or later Operating System

Memory 256 megabytes (MB) of RAM

For offsite/online backup a high-speed Internet connection; such as, DSL, cable, T1 or similar is recommended.

2. Introduction

Whether you are an individual or a business, your information is important. In this time of identity theft, government regulations for compliance, cyber-terrorism, natural disasters and other uncertain eventualities, it is important to take steps to protect your most critical information for your security and peace of mind. One way to help minimize the impact of loss of information is to have secure, off-site backup and recovery solutions in place in order to protect your data.

GPmicro Inc.'s **dinKum™** provides a data backup and recovery solution that is cost effective and simple enough for the average home user, yet sophisticated enough for any small to mid-size business. Moreover, elements of our process can be customized to meet unique needs.

Why backup? Data loss can be catastrophic for businesses, causing costly downtime and the loss of valuable information. With the amount of data stored on servers, computer hard drives and portable storage devices amounting to terabytes (thousands of gigabytes), taking precautions could literally save your business.

Yet, the truth is, many business people are extremely busy running their day to day operations and forget about the possibility of disaster, legal inquiries, employee issues and the like, and put off sorting out a data backup solution. Don't panic yet, if you haven't put a system in place, GPmicro's team will help you develop a backup and recovery strategy that fits your needs and budget.

The first step in setting up a working backup procedure is to decide what you need to back up and when. Initially, you will need to take a complete 'snapshot' (also called an 'image') of everything on your computer, copying any registry details and all software programs. This means that all data on your computer at the moment of backup will be saved.

In addition, when you install new software, take a snapshot of your current setup before you install it in case it causes a problem on your computer that you might want to reverse. Then take another snapshot after the software has been installed, after you've had time to check that everything is working as it should.

Next, make sure to schedule the backup of your changing data files, such as new documents, contacts and emails, on a regular basis. It depends on how much work you do each day as to the time lapse that you think you can risk between backups. **dinKum™** recommends daily, but when you are working on an important project, it may be more prudent to use the "backup now" option for more recent backups.

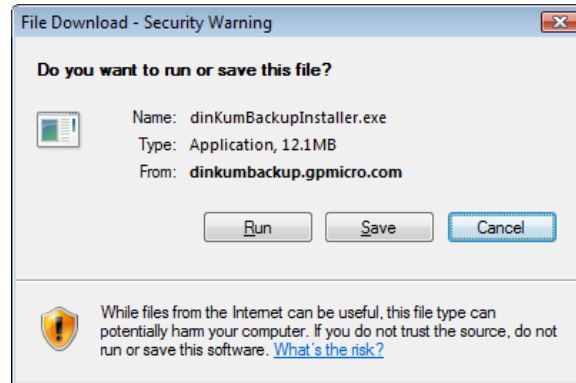
If you have any data that is particularly valuable and is unlikely to change, such as photos or legal documents, you should consider archiving these to a safe, long-term storage, perhaps on a monthly basis. **dinKum's™** offsite/online backup service keeps up to three versions of your files; just in case you need to restore a previous version and the free local backup keeps all file versions.

Once your backup system is in place, you can rest assured that in the event of any type of computer failure, theft, fire, or water damage, you won't lose information that is priceless to your business.

3. Download the dinKum Data Backup Software

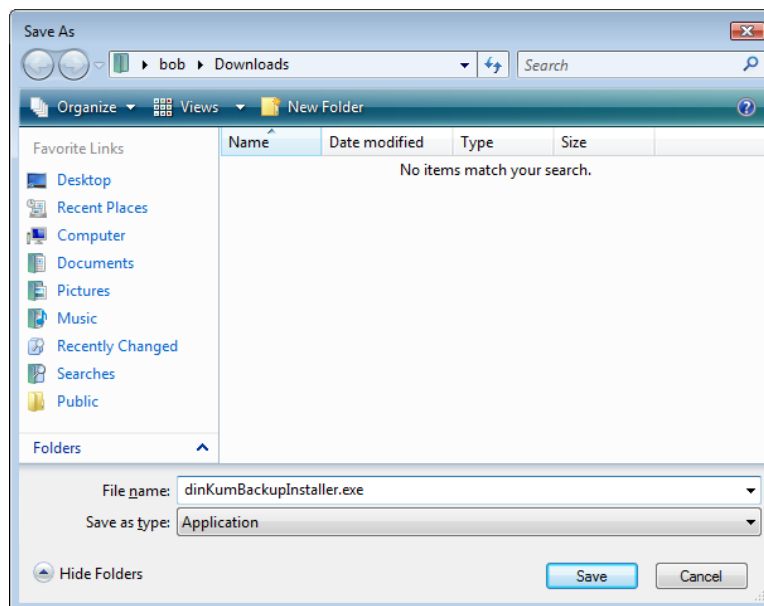
When installing, uninstalling or upgrading the dinKum Backup software it is necessary that you are logged in to your computer as a user with 'Administrator' privileges otherwise the installation will fail.

You can obtain the dinKumBackupInstaller.exe file from the www.gpmicro.com website by clicking on the 'Download' button at the top of the main webpage. Before the download of the software occurs the following message might appear on your screen.

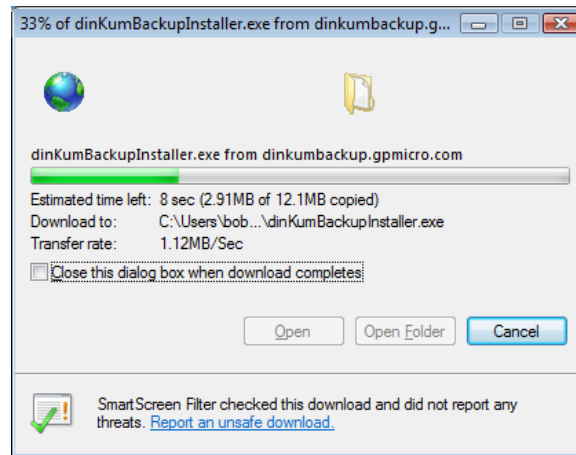


Click on 'Save' to save the file on your local hard drive.

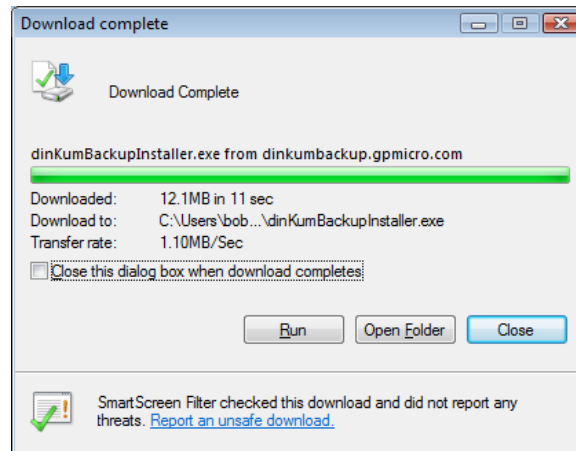
Now specify a location for the file to be stored to.



After you choose the location click the 'Save' button and the download process will begin. Remember this location in case you ever need to re-install the software.



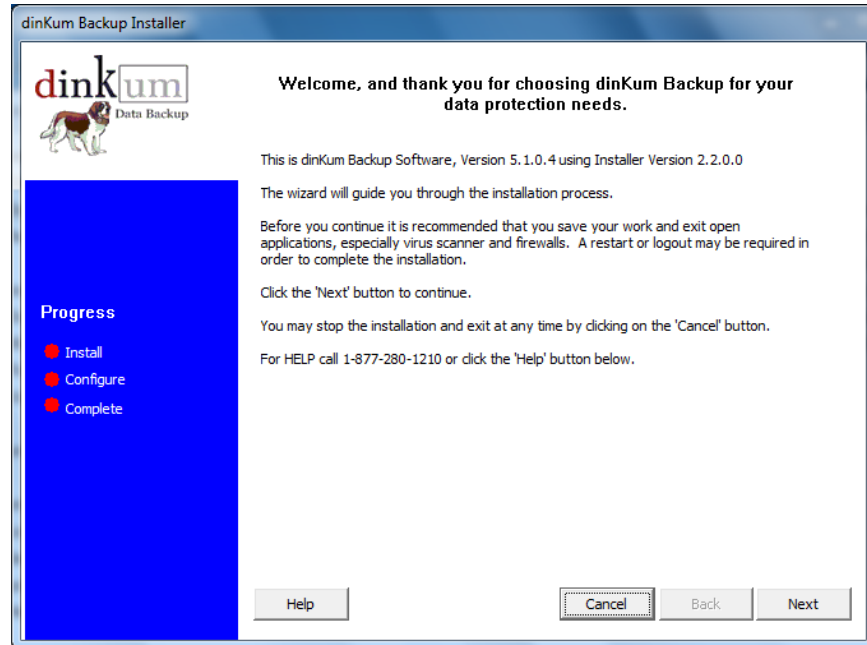
Important! Before installing the dinKum™ Data Backup software it is recommended that all open programs including virus protection and other programs that may be running in the background are temporarily closed.



After the download is complete click on 'Run' to begin the installation process.

If you saved the download and did not click 'Run', then you will need to locate the file on your computer and 'Double click' on the file dinKumBackupInstaller.exe with the left mouse button. Click 'Continue' or 'Yes' to proceed if Windows asks for confirmation.

4. The Installation Process

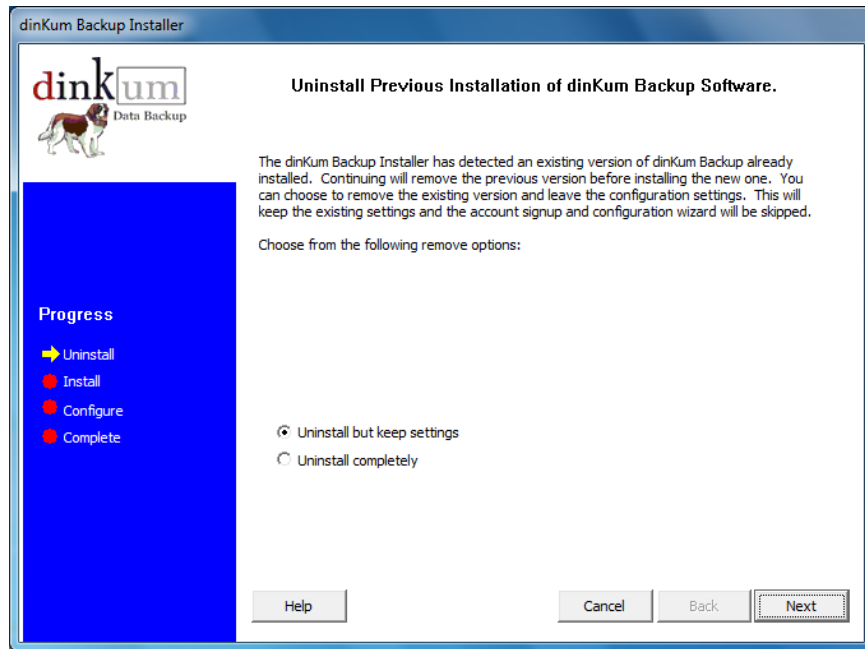


The following screenshots are examples of what you might see on your screen during the installation process. You will need to click 'Next' to go to the next screen. At any time, if available, you can click the 'Back' button to go to the previous screen or click on 'Cancel' to stop and abort the installation process.

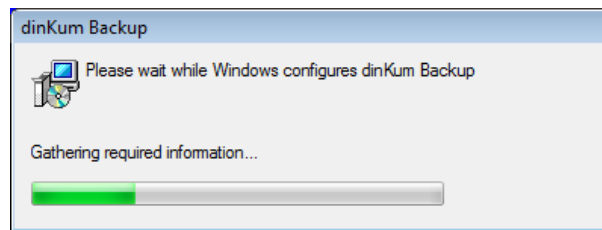
4.1. Choosing New Install or Upgrade

If you are installing the dinKum™ Data Backup software for the first time then proceed directly to the Licensing Agreement page – Section 4.2.

If you already have the software installed on your computer, you must choose one of the following options by clicking on the appropriate button. If you choose 'Uninstall but keep settings' (the default), your previous configuration along with log files, and other user created information will remain intact. Otherwise, if you choose 'Uninstall completely' all prior information will be removed before installing the new software version and will be treated as a completely new install.



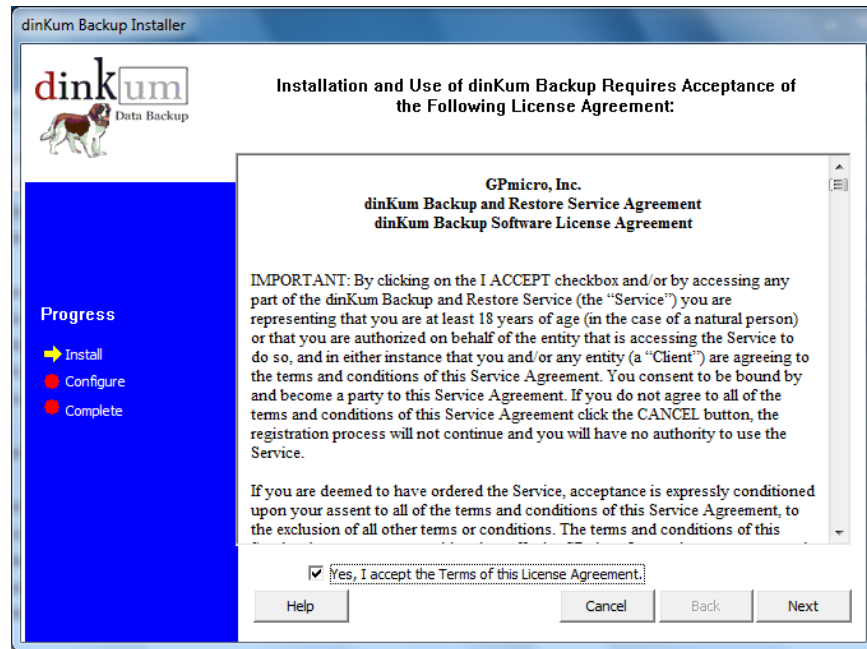
The following progress window will be displayed while the current software is uninstalled. This could take several minutes.



4.2. Licensing Agreement

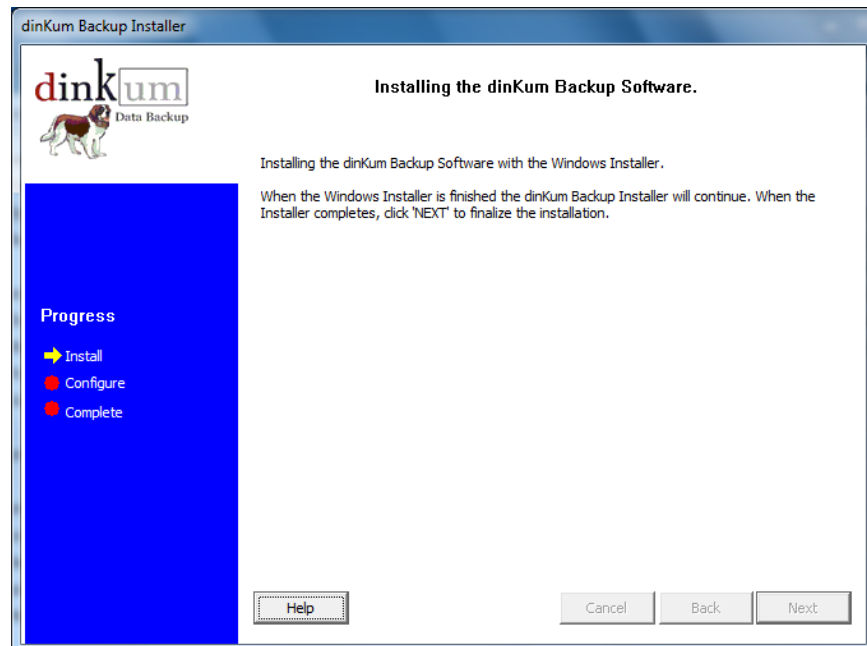
Please read the Software License Agreement pertaining to dinKum™. You must click on the 'Yes, I accept the Terms of this License Agreement' check box in order to proceed. Click 'Next' to continue.

The License Agreement can be found under 'Help' in the Backup Manager program after the installation is complete for future reference.

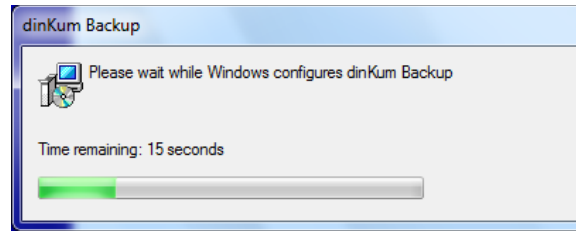


4.3. Starting the Installation Process

To proceed with the installation, click 'Next'. In the event that you are reinstalling the software make sure that the Backup Manager or any other related applications are not running at this time. The installer attempts to close them but it is best to close these applications to prevent any potential conflicts.



The installation process can take several minutes to complete.



Note: The installation is not complete, yet. It is necessary to have access to the Internet for the offsite/online data backup configuration. The local only backup setup and configuration does not require an Internet connection.

5. The Configuration Process

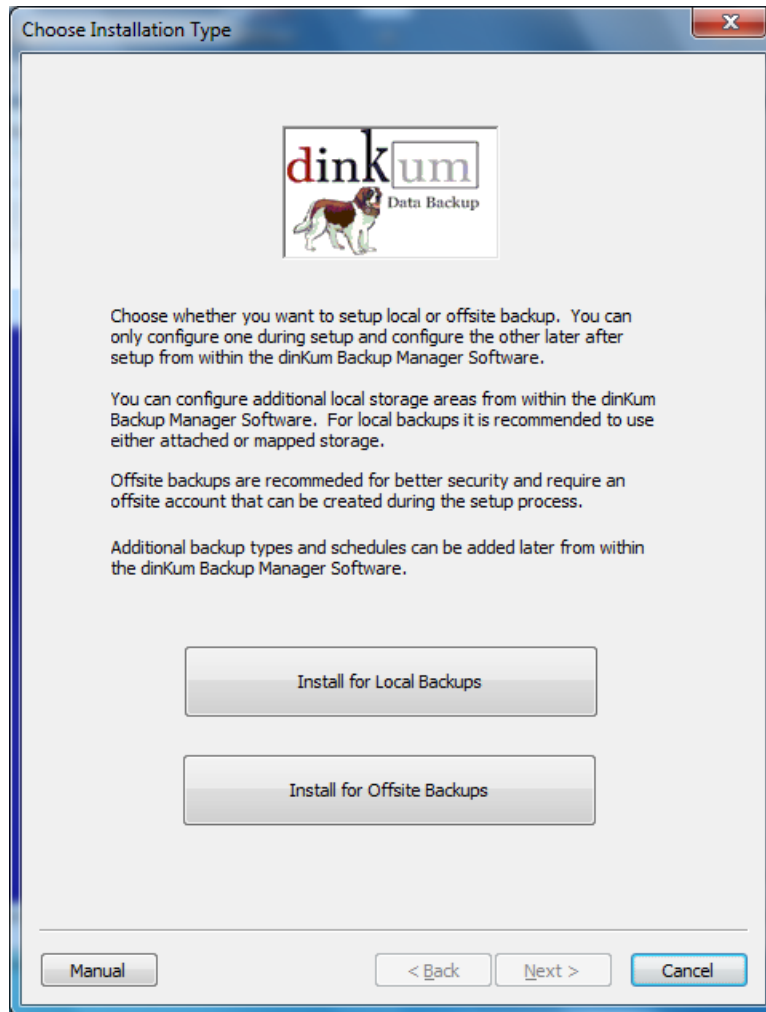
On the first screen of the configuration wizard, select the button that corresponds to the initial type of installation you wish to have. The choices are either the installation for Local Backups or for Offsite Backups. After installation, you can configure the other option from within the Backup Manager. If you cancel the installation at this point, you will be required to configure the installation the first time you run the Backup Manager.

WARNING: Backups will NOT occur until you successfully configure your backup software.

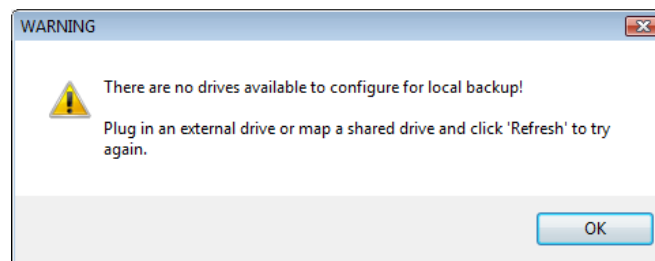
5.1. Configuring Local Backups

If you click on 'Install for Local Backups', you will see the following screens. If you choose 'Install for Offsite Backups', proceed to Section 5.2 'Configure Offsite Backups' for instructions.

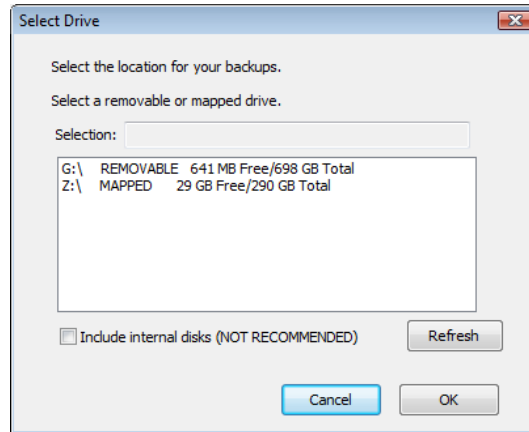
NOTE: The 'Select Drive' dialog window will display above the 'Local Backup Storage' screen of the wizard if you have not already selected a local storage drive.



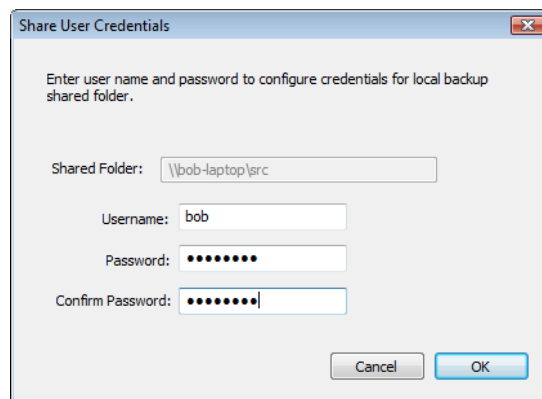
NOTE: If you do not have any attached disk drives, you may see the following message. Insert an external drive and click 'Refresh' to be able to select an attached drive. It may take time for the drive to show in the select list. Click 'Refresh' until the drive appears.



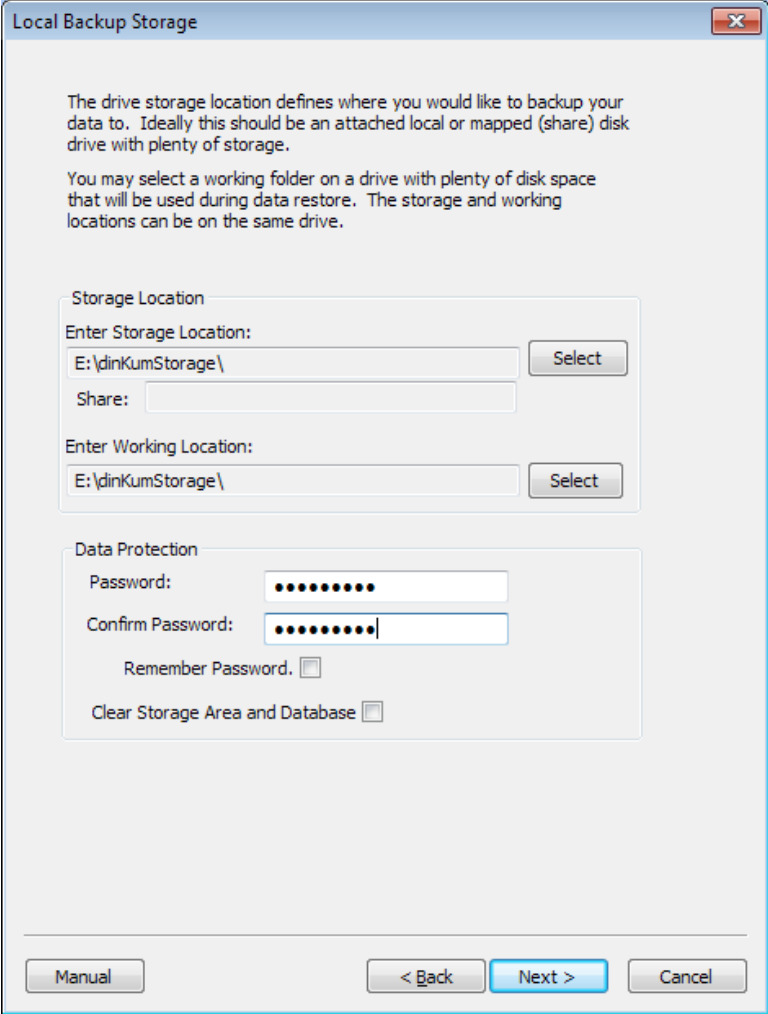
Select a removable/attached drive or a mapped drive that you wish to use for your local backup storage and then click 'OK' to continue.



When a mapped drive is selected as the backup storage location then the following message appears. In order for the backup to occur even when the user is not logged into the computer the mapping credentials such as username and password are required.



NOTE: It is not recommended to use internal disks – especially not your C-drive for backups. But if no other drives are available internal disks can be selected by checking the check box 'Include internal disks' and then hit 'Refresh'. After you press 'OK' the following screen appears.



The drive storage location defines where you would like to backup your data to. Ideally this should be an attached local or mapped (share) disk drive with plenty of storage.

You may select a working folder on a drive with plenty of disk space that will be used during data restore. The storage and working locations can be on the same drive.

Storage Location

Enter Storage Location:
 E:\dinkumStorage\ Select

Share:

Enter Working Location:
 E:\dinkumStorage\ Select

Data Protection

Password: ••••••••

Confirm Password: ••••••••

Remember Password. ☐

Clear Storage Area and Database ☐

Manual < Back Next > Cancel

The before selected storage location will be displayed in the Local Backup Storage configuration screen above.

In the 'Password' text box, enter a password to protect your local backup data from unauthorized access. You must re-enter the same password in the 'Confirm Password' text box to confirm your password. Check the 'Remember Password' checkbox if you want the 'Backup Manager' to remember your password when you access the local storage. If you do not check this box you will be required to enter your password when you want to view or restore your backups. The password is case sensitive and at least 6 characters and/or numbers are required and not more than 32 characters and/or numbers are accepted.

If the local storage location is new, it will be initialized as a new empty local storage area and you must supply a new password. Once, initialized, you must always use this password to be able to access this storage location.

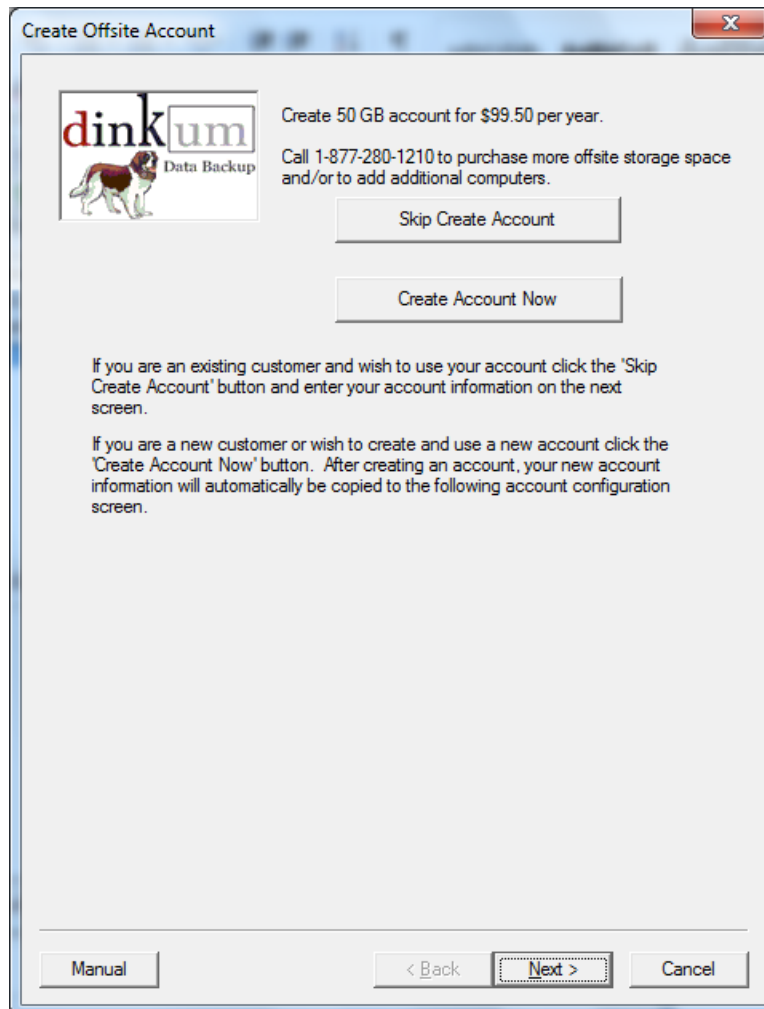
If you wish to clear an already existing location and turn it into a new storage area, click on the 'Clear Storage Area and Database' checkbox. In this case, you can enter a new password.

WARNING: If you clear the storage area, any previous backups will be deleted.

Skip the next section and proceed to Section 5.3 'Schedule Backups' if you are installing for FREE Local Backup only.

5.2. Configure Offsite Backups

You can sign up for an offsite/online dinKum Backup account before you install the software from the www.gpmicro.com website or during the software configuration at the time of installation. In either case, you will need your username and password that you used during the signup process for the 'Offsite Logon' configuration screen.



If you chose the 'Install for Local Backups' you can skip this section and go straight to Section 5.3 'Schedule Backups'. You can create or configure an offsite account later from the Backup Manager.

If you do not already have an offsite account or wish to create another offsite account, click on the 'Create Account Now' button.

For existing customers with active offsite accounts, click the 'Skip Create Account' button to proceed to the 'Offsite Logon' screen (see end of Section 5.2) where you can configure an existing account.

When you want to create an offsite account then click on the 'Create Account Now' button and the contact information form will be displayed.

Fields with a "*" next to their names are required. The password is case sensitive and must be between 6 and 32 characters in length. After entering your contact and backup account information and password click on the 'Next' button to proceed to the charge card information screen. Fields showing an asterisk are required. In the 'Account Name' text box, you must enter a unique account name (case sensitive) no longer than 32 alpha-numeric characters. If the account name is already in use, you will be notified and allowed to re-enter a different account name.

Warning! Do not use the 'Advanced' button unless instructed to do so by GPmicro Inc.'s support personnel.

Create Offsite Account

dinkum Data Backup

Create 50 GB account for \$99.50 per year.
Call 1-877-280-1210 to purchase more offsite storage space and/or to add additional computers.

Personal Information

* Asterisk designates a required field.

First Name*: John
Middle Initial: A
Last Name*: Smith
Company:
Address*: 25 Data Lane
City*: Las Vegas State*: NV
Zip Code*: 89119 Country*: USA
Phone*: 7021234567
Email*: JSmith@data.com

Backup Account

Account Name*: JSmith Unit: 0000
Password*: ***** Confirm Password*: *****
The 'Advanced' button should only be used if requested by your software Backup Provider support personnel.
Server: gaa.gpmicro.com Port: 7117

A completed sample form is shown above. Click 'Next' to proceed to the Charge Card Information screen shown on the following page.

Credit Card Information

 Create 50 GB account for \$99.50 per year.
Call 1-877-280-1210 to purchase more offsite storage space and/or to add additional computers.

* Asterisk designates a required field.

Credit Card Information

Name On Card*:

Credit Card Number*: (No spaces)

Expiration*: (Enter in 'mm/yy' format)

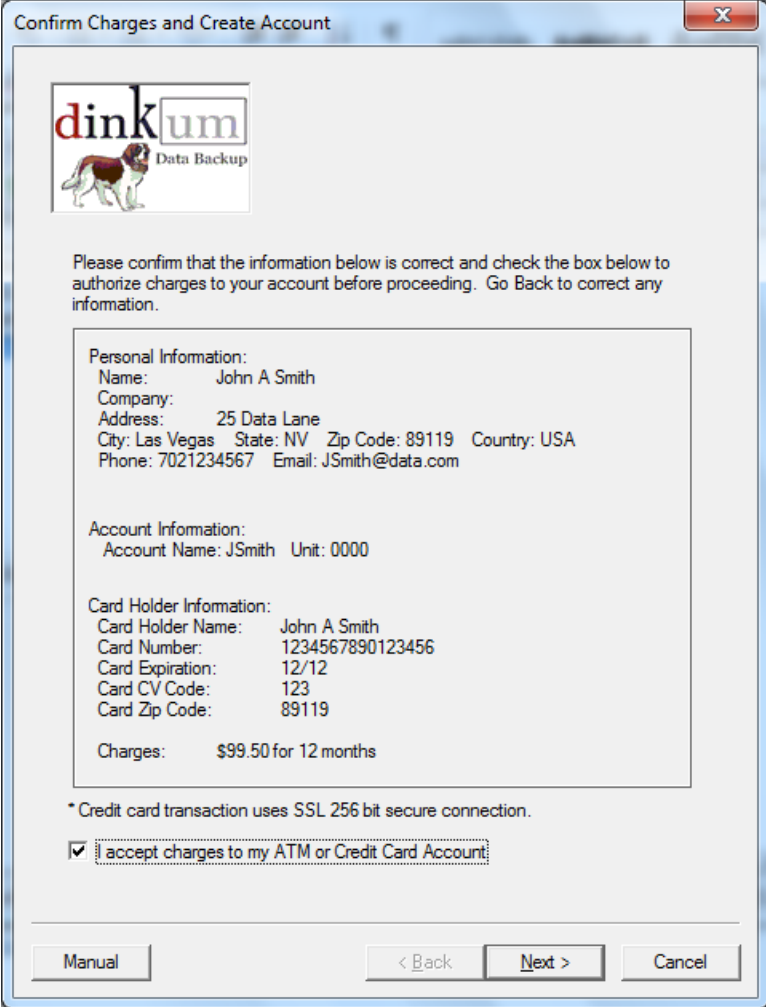
CV Code*: (example: 123)

Zip Code*:

* Credit card transaction uses SSL 256 bit secure connection.

All fields are required and the correct format is shown to the right of the input field. You can click on 'Help' at any time to display a more detailed description of the fields and how to locate certain information from your charge card.

Once you complete the Charge Card Information, click 'Next' to review the information you entered. You can confirm your information or click 'Back' to correct anything before proceeding with the account creation.



Confirm Charges and Create Account

dinkum
Data Backup

Please confirm that the information below is correct and check the box below to authorize charges to your account before proceeding. Go Back to correct any information.

Personal Information:
 Name: John A Smith
 Company:
 Address: 25 Data Lane
 City: Las Vegas State: NV Zip Code: 89119 Country: USA
 Phone: 7021234567 Email: JSmith@data.com

Account Information:
 Account Name: JSmith Unit: 0000

Card Holder Information:
 Card Holder Name: John A Smith
 Card Number: 1234567890123456
 Card Expiration: 12/12
 Card CV Code: 123
 Card Zip Code: 89119

Charges: \$99.50 for 12 months

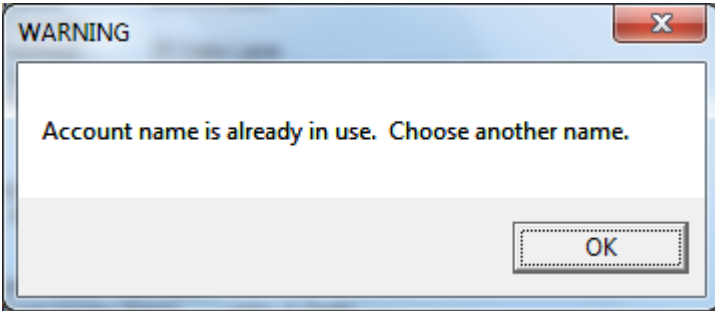
* Credit card transaction uses SSL 256 bit secure connection.

☒ I accept charges to my ATM or Credit Card Account.

Manual < Back Next > Cancel

Click on the 'I accept charges to my ATM or Credit Card Account'. Verify that the information is correct and then click 'Next' to finalize the account creation process.

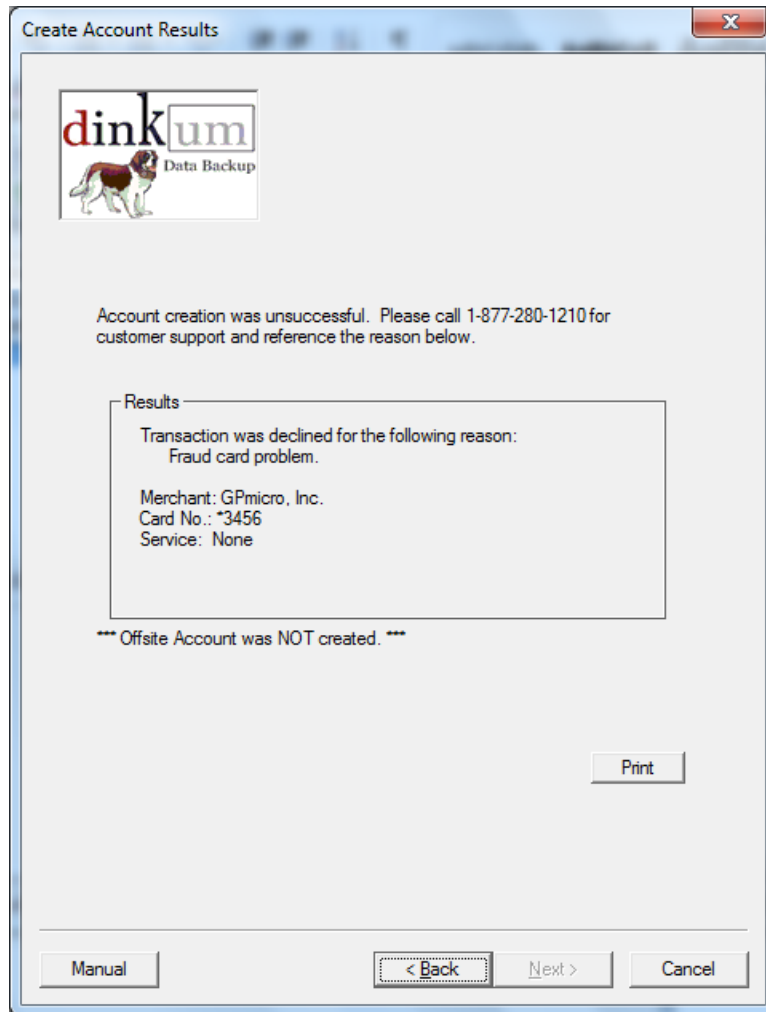
If the account creation fails or the charge card is declined, messages similar to the one below will be displayed. Uncheck the checkbox next to 'I accept charges...' which will re-activate the 'Back' button so you can go back and correct any information and try again.



WARNING

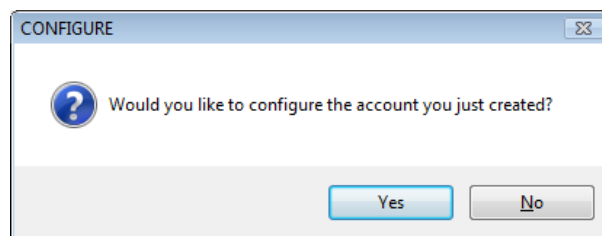
Account name is already in use. Choose another name.

OK



When successful then your offsite/online backup account has been created and is now ready to accept backups but before you can back up to your account; your backup software must be configured. Click 'Next' to proceed to the 'Offsite Logon' screen.

You will be asked if you wish to use the just created account information for the 'Offsite Logon' screen. If you click 'Yes' to the following message, the just created account information will be copied to the 'Offsite Logon' screen. If you want to configure the software to backup to a different account, click 'No' (this would only be the case when you already have an existing offsite account that you are using) and you need to enter the required information into the 'Offsite Logon' screen.

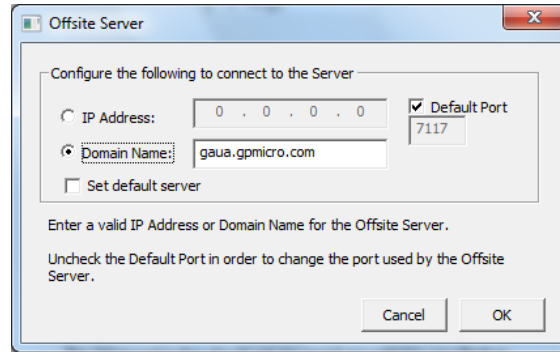


Fill out the account name, password, and unit number (always 0000 on new accounts). Check the 'Remember Password' checkbox if you wish the Backup Manager to remember your password.

NOTE: If you do not check the 'Remember Password' checkbox, you will be required to enter your password each time you run the Backup Manager. The checkbox is unchecked by default for security reasons but for computers that are only under your control you may choose to check this box for convenience.

Warning: Do not use the 'Advanced' button unless instructed to do so by your support representative.

When clicking on the 'Advanced' button it is possible to change the default backup location and port number in case a different server location is used or a firewall at your end blocks the default port. When the default port # 7117 does not work try port # 110 as alternate. A 'Set default server' checkbox allows resetting any made changes.



Click the 'Next' button to proceed to the 'Schedule' screen described in the 'Schedule Backups' section next.

5.3. Schedule Backups

Using the 'Schedule' screen you define when backups will occur. There are two choices when configuring a schedule, the 'Day Selection' defines on which day or days to perform backups, and the 'Time Selection' defines the time or times of the day to run on those days.

For the 'Time Selection' section you have the following choices. When 'Every x hours ...' is selected then you can enter a whole number (integer) between 1 and 12 in the provided field. A '1' means that a backup occurs every hour on the hour and when a 2 is entered a backup will happen every two hours. The count starts at midnight, which means that when 12 is selected then one backup occurs at midnight and another backup occurs at noon.

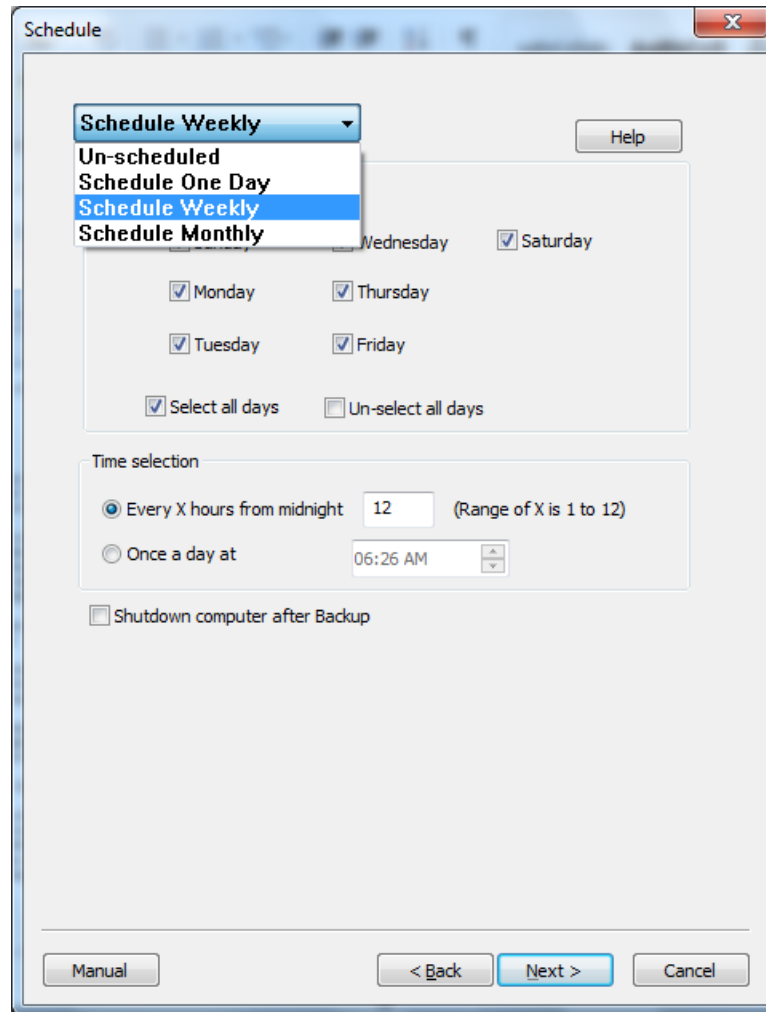
When 'Once a day at' is selected then enter the time in the field provided. A backup will occur every day at the time you specified.

It is necessary for your computer to be turned on during scheduled backup times but it is not necessary for a user to be logged in during scheduled backups. There is an option that allows for shutting down the computer after the backup is complete.

Note: The Windows (XP and later) operating systems allow backups to occur on files even when they are open during backups.

Click on the 'Help' button to display the 'Schedule Help' screen.

The drop down list allows you to choose the day or days for the scheduler providing the following options: 'Un-scheduled' for no schedule, this means that you need to always manually initiate the backup process; 'Schedule One Day' to run only on that day that is selected; 'Schedule Weekly' to select week days to run; or 'Schedule Monthly' to select days of the month. The 'Day Selection' will change to reflect the appropriate options based on the drop down selection.



For the 'Un-scheduled' option, both the Day and Time selection sections disappear, as they have no meaning for this option.

NOTE: You can change the schedule later by using the Backup Manager software.

When you choose 'Schedule Weekly' from the dropdown list, you can select the days of the week to run the backup. This is the default selection on a new install with all days of the week selected. This will run the backup every day.

The days can be checked or unchecked individually, or you can use the 'Select all days' or 'Un-select all days' checkbox for convenience.

You can select 'Schedule One Day' from the dropdown list if you want to run the backup on only one specific date. A calendar in the 'Day Selection' section will be presented for you to choose the date. If you choose this option for the initial backup and wish to create a repeating schedule later, you can change this from within the Backup Manager.

Otherwise, the backup will only run on that date and you will have to run them manually after that or change the schedule from the Backup Manager.

Note that you can run the backup multiple times on the selected date by choosing 'Every X hours ...' option in the 'Time Selection' section. Once the date passes, the backup will no longer run and act as though 'Un-scheduled' were selected.

Schedule

Schedule One Day ▼

Help

Day Selection

◀ September, 2011 ▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Time selection

☐ Every X hours from midnight 12 (Range of X is 1 to 12)

☒ Once a day at 06:26 AM

☐ Shutdown computer after Backup

Manual < Back Next > Cancel

Select 'Schedule Monthly' from the dropdown list if you want to select specific days of the month to run backups. When you choose this option, you will be presented with checkboxes for each day of the month. Check the days you want backups to run, and uncheck those days not to run. 'Select all days' and 'Un-select all days' are provided for convenience.

For months with less than 31 days, selecting 31 will not run a backup on this day for these months. To handle this situation, check 'Perform backup on last day of month' to force a backup on the last day of every month. This will always run a backup on the last day of the month regardless of the number of days in the month.

Without this option, you would have to select all four days (28, 29, 30, and 31), which will cause a backup to occur on all of the days that are checked.

When clicking on the Month or Year (red oval) it is possible to directly change the months or years in this selection.

The screenshot shows the 'Schedule' dialog box. At the top, there's a 'Schedule Monthly' dropdown and a 'Help' button. Below is the 'Day Selection' section, which includes a grid of checkboxes for each day of the month (1st to 31st). There are also checkboxes for 'Perform backup on last day of month', 'Select all days', and 'Un-select all days'. The 'Time selection' section has two radio buttons: 'Every X hours from midnight' (with a value of 12) and 'Once a day at' (with a time of 06:26 AM). There is also a checkbox for 'Shutdown computer after Backup'. At the bottom are buttons for 'Manual', '< Back', 'Next >', and 'Cancel'.

After making your selections, click 'Next' to proceed to the 'File Selection' screen.

5.4. Select Files to Backup

The **File Selection** screen allows you to initially select and configure categories of files and folders for backup. At this time you can select categories only such as user data or program data on your local drive. The Backup Manager is the actual tool for the configuration of backup settings that will allow selecting individual files and folders on local, attached and mapped drives. The information is maintained in a file called a Manifest (or File List) file. In the 'File Selection' window there are two options of selecting a Manifest file: Existing file list file, including the option to 'Browse', or 'New file list file'. Not all of these options may be

available depending on whether this is a new installation or a re-installation. The choices will be enabled if available.

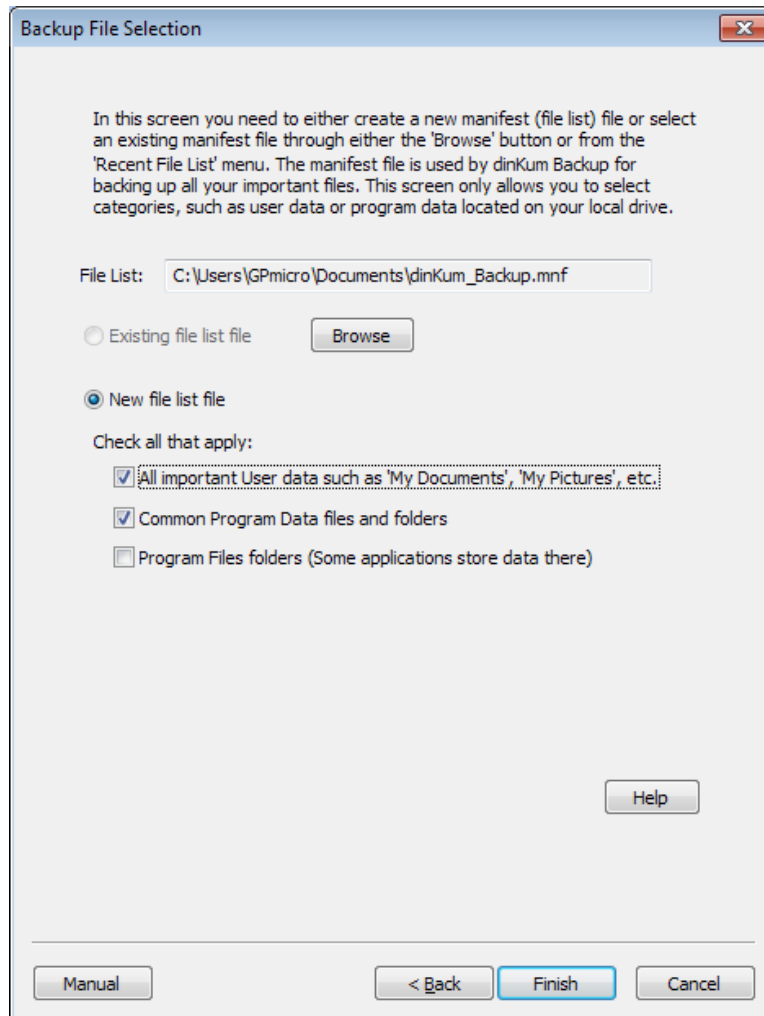
On a new install the 'New file list file' option allows you to quickly create a new list of the most common files that should be backed up. When you select this option, you can choose categories under 'Check all that apply'. The most important items are pre-selected for this option by default.

If you check 'All important User data ...' checkbox, this will back up all of the user profiles. This includes all users' documents, pictures, music, video, etc. These are locations that user created documents are typically saved to by default for almost all applications.

If you check the 'Common Program Data files and folders' checkbox, this will backup non-user created data stored by many applications. Often these files are required by these applications to run properly.

Warning: Only uncheck the 'Common Program Data files and folders' checkbox if you are absolutely sure that you do not need any of these files.

Check the 'Program Files folders' if you know or are unsure whether some applications store information in these installation folders. Many applications such as Quickbooks™ as well as others store both non-user and user data under 'Program Files'.



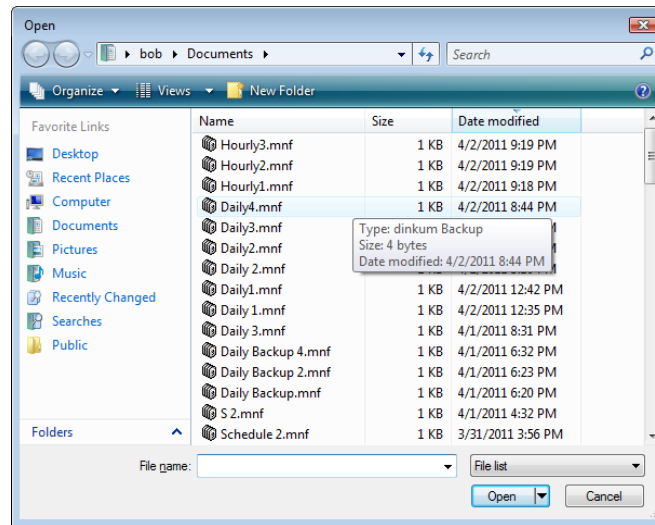
Click 'Finish' to create the file list file and complete the configuration. After the installation completes, backups will automatically begin to run at their scheduled time.

Note: You can add and remove files or folders later from the Backup Manager. These choices are only for the initial configuration and you can fine-tune your file selection later.

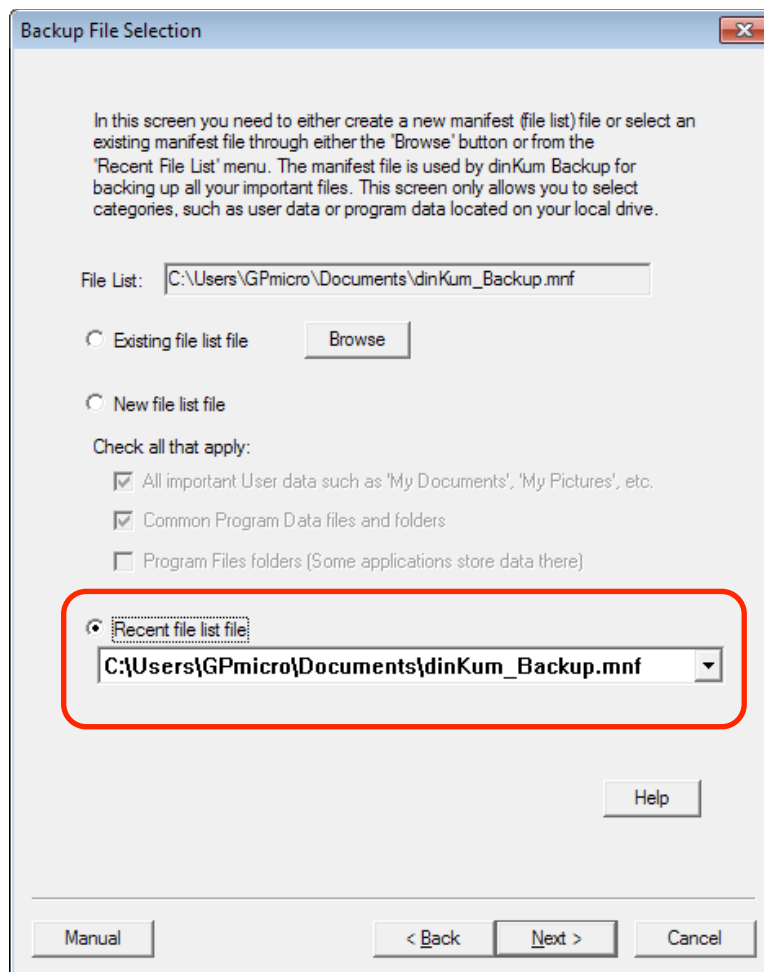
When you are re-installing the software you also can select 'Existing file list file' if you already have a file list configured that you want to use. (This option will not be available on a new installation).

You can browse for a known file list by selecting 'Browse' and selecting an existing file. This option is only useful if you are re-installing and one or more file list files already exists.

Click on the 'Browse' button that is located next to the selection in order to choose the file from the 'Open' dialog box as shown below.



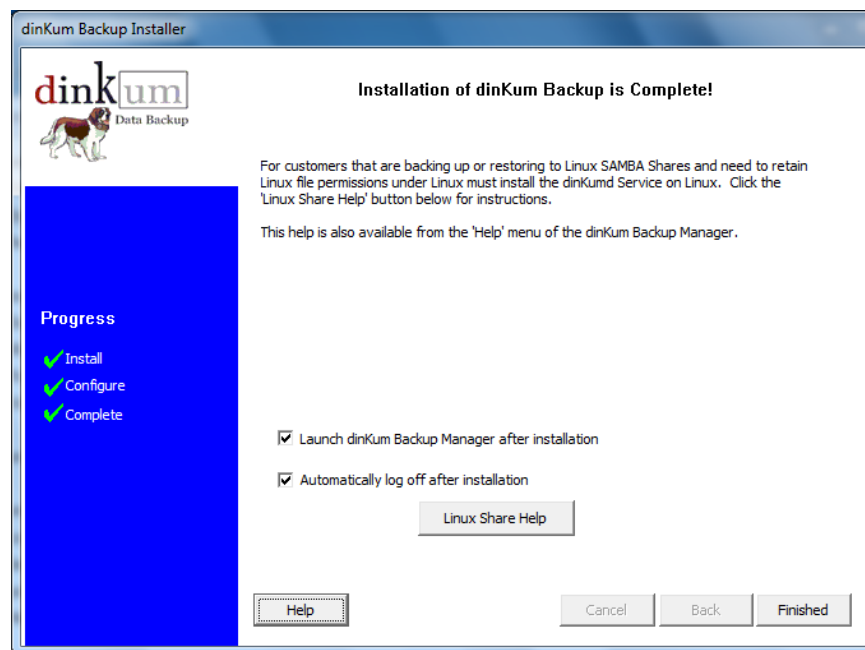
If the software has already been installed before, you may have a file list file in the 'Recent file list file' list. If this is available, select the 'Recent file list file' option and choose the list file from the dropdown list – see below. (This option is not available on new installations).



5.5. Completing Installation

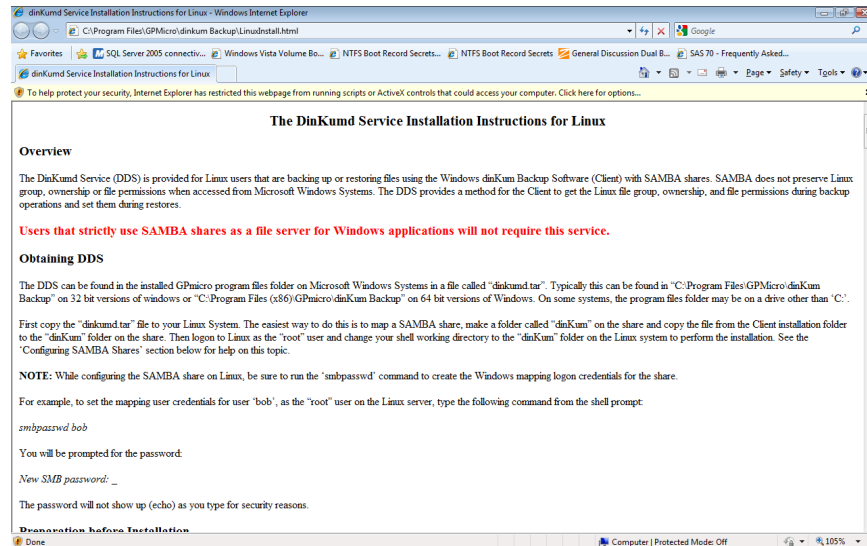
At this screen, the installation for Windows based systems is complete and the backups will now run according to your schedules. More information on configuring the backup process can be found in Section 6.5 ‘Backup Settings’. Should you plan to backup data from mapped drives that are located on Linux systems **and it is necessary to preserve the Linux permissions of those files** then you need to install the ‘dinkumd service’ on the Linux system. On the screen below you can click on the ‘Linux Share Help’ button for further information on configuring optional Linux shares. Section 11 discusses this process in detail.

You can also automatically run the Backup Manager with the ‘Launch the dinKum Backup Manager ...’ checkbox checked.

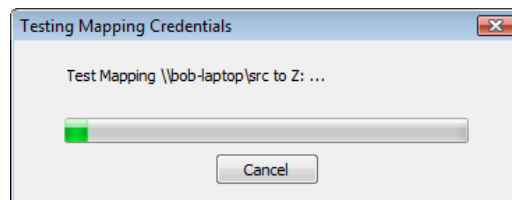


On new installations, the ‘Automatically log out after installation’ checkbox is available and checked by default – see next page. This is only necessary the very first time you install this software on a computer. And it is only necessary if you intend to run the Backup Manager before the next time you logon and intend to backup mapped (shared) drives. If you do not plan to backup mapped drives then you can uncheck the checkbox.

Below is a sample screen shot of the help file for configuring Linux (Samba) Shares when Linux file permissions are needed to be preserved during backup and restore.



When a mapped drive was selected as backup storage location then the provided credentials such as username and password are now tested to verify accessibility to this storage area as shown below.

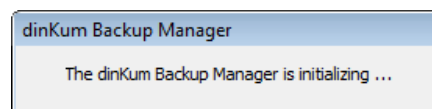


If you are still in need of help or need more information please email us at support@gpmicro.com. We will be happy to answer any questions and help you start backing up your data.

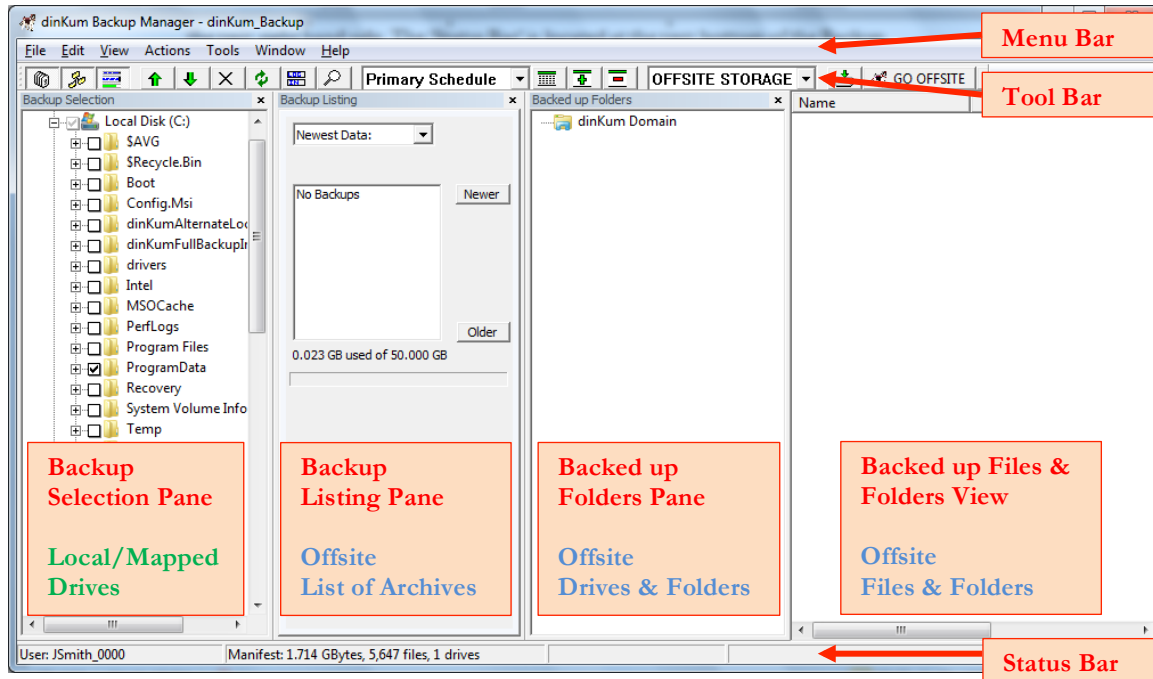
6. Starting the Backup Manager Software

The tool that helps to configure backups and to manage and restore data is the 'Backup Manager'. Each backup, even when it is just a single file, creates an archive on your system that is encrypted and compressed before it is send offsite. The 'Backup Manager' accesses these offsite archives and requires an active internet connection. The benefit is that the data is accessible from anywhere if needed. Below is an overview of the functionality.

The dinKum Backup Manager will take a moment to come up and during this time a message window as shown below informs the user about the current status of the software.



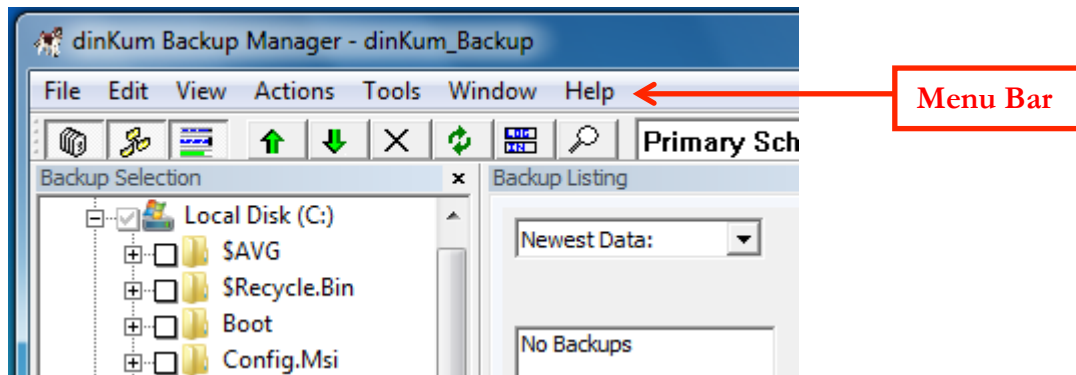
Once the initialization of the dinKum Backup Manager is complete it will start and look like shown on the following screen. The Backup Manager window contains the following elements that are explained further below. The 'Menu Bar' is on the very top and the 'Tool Bar' right below it. The main area is taken up by 4 'Window Panes' – 'Backup Selection' Pane, 'Backup Listing' Pane and 'Backed up Folders' Pane and a 'Backed up Files and Folders' view window at the very right hand side. The 'Status Bar' is located at the very bottom of the Backup Manager window.



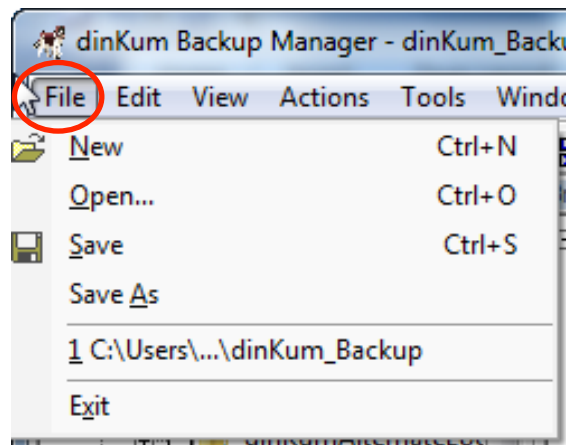
The 'Backup Selection' Pane is local to your computer and here you can select files and folders on your local disk as well as other drives, including mapped network drives. A '+' sign indicates that the folder can be expanded into subfolders and/or files. A black check mark ☒ next to the files and folders indicates that this file/folder and all files/subfolders are selected for backup. A grey check mark ☐ indicates that not all files and/or subfolders are selected for backup.

The other three windows are empty since no backup has occurred, yet. These show information in regards to the backed up data either offsite for offsite account holders or on a backup device that can be a local or mapped drive.

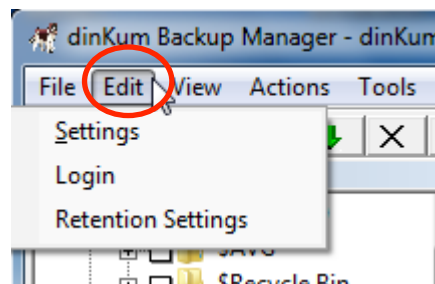
6.1. The Menu Bar



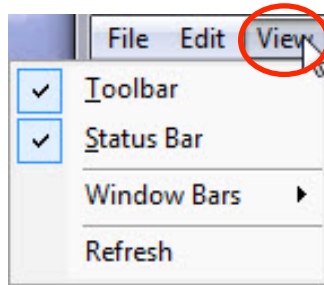
The 'Menu Bar' is located at the top of the Backup Manager and contains commands to manage backup file selections, backup schedules and the backed up data. The screen shots below show the detailed content of the menu bar commands.



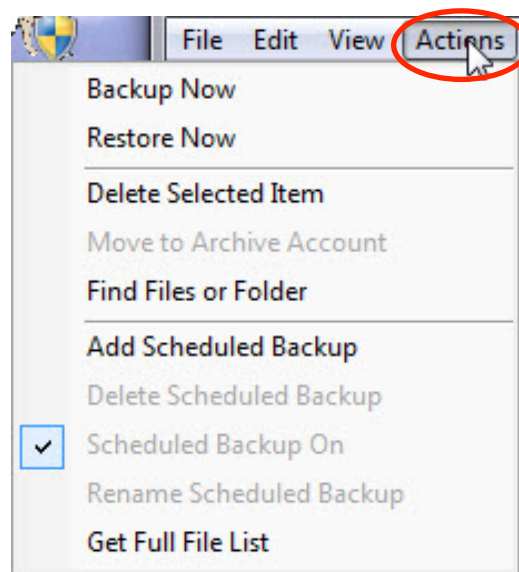
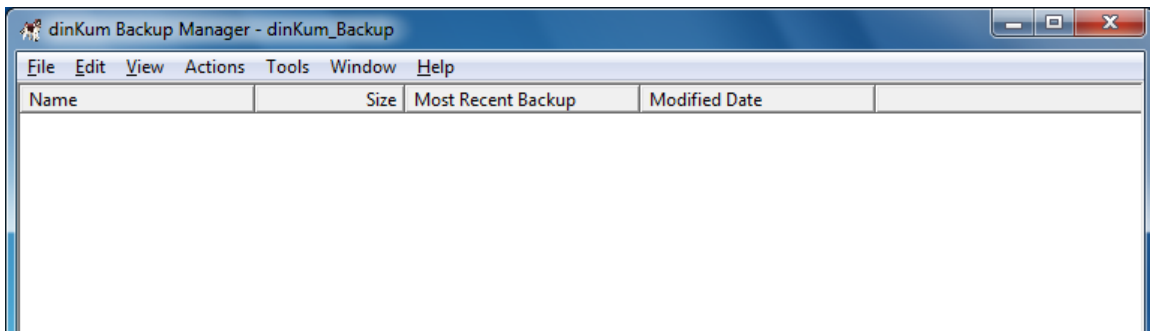
The 'File' menu has commands related to creating (NEW), opening (Open...) and saving (Save) manifest files and to exit the Backup Manager.



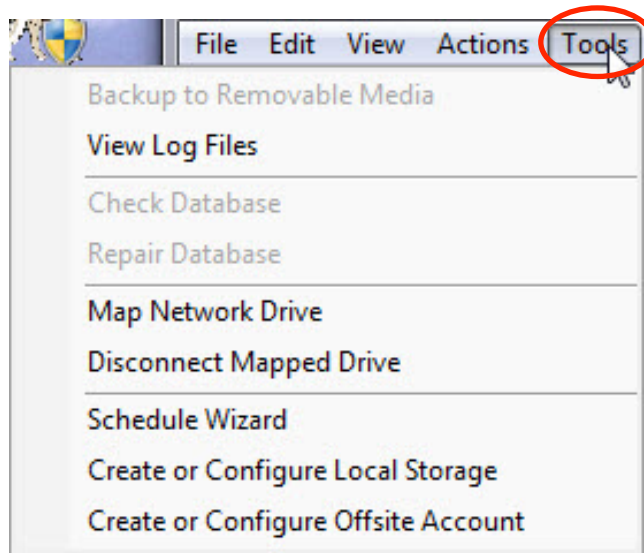
The 'Edit' menu has commands for the backup and restore settings, as well as the account login that allows to login to different backup accounts. The third command refers to data synchronization and retention. Data that has been deleted or moved on the local system can be deleted from the backed up data, as well and therefore keeps the local and backed up data sets synchronized.



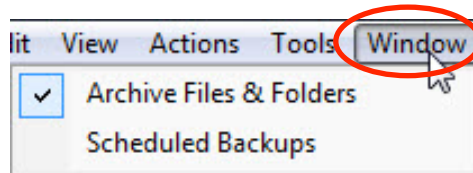
The 'View' menu allows refreshing of all window panes after changes to the local computer or when backups occurred and it allows to selectively turn the different panes on or off. When all options are turned off the Backup Manager looks like this:



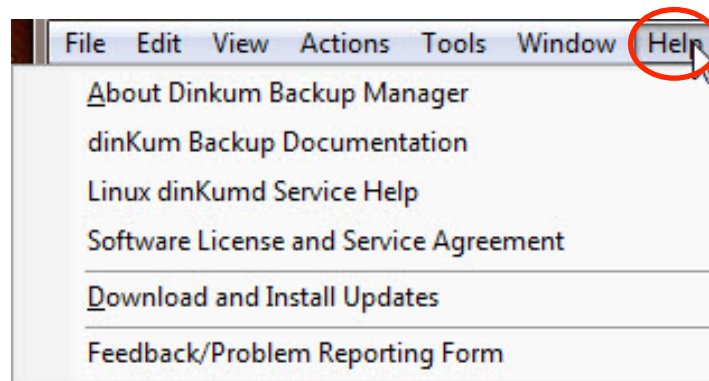
The 'Action' menu contains commands related to backup and restore, delete, find and backup schedules. Depending on the selection of the data or schedules certain commands are not available and therefore greyed out.



The 'Tools' menu contains commands in regards to mapped drives, schedule creation and creation of new backup storage locations. It has a database check and repair functions for local backups when needed and a command to start the log file viewer. The command 'Backup to Removable Media' is usually greyed out since this command only applies to drives shipped from GPmicro, Inc. for initial backups that are too large to transmit in a reasonable amount of time over the Internet.



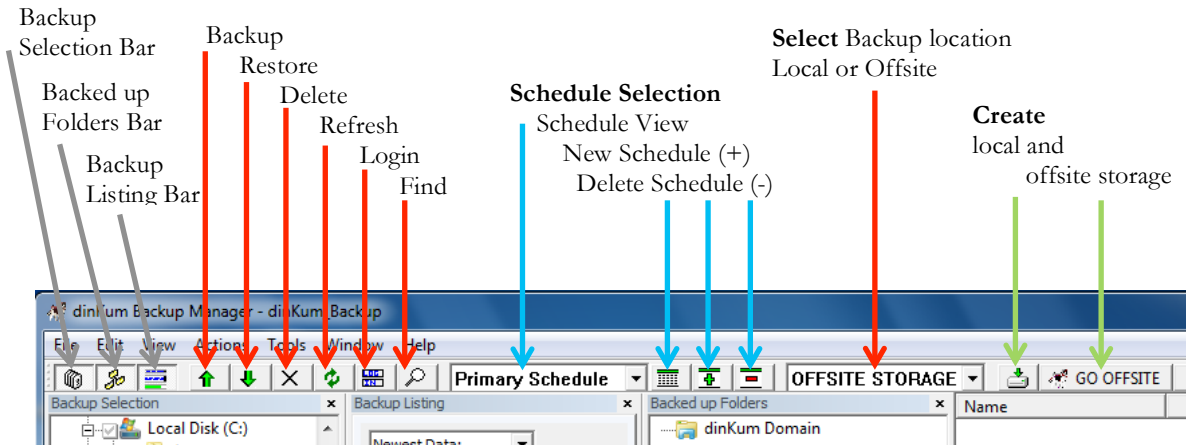
The 'Window' menu allows switching the view between either backed up files and folders view or a list of the existing backup schedules.



The 'Help' menu contains the Software License and Service agreements, help documentation, and contact information.

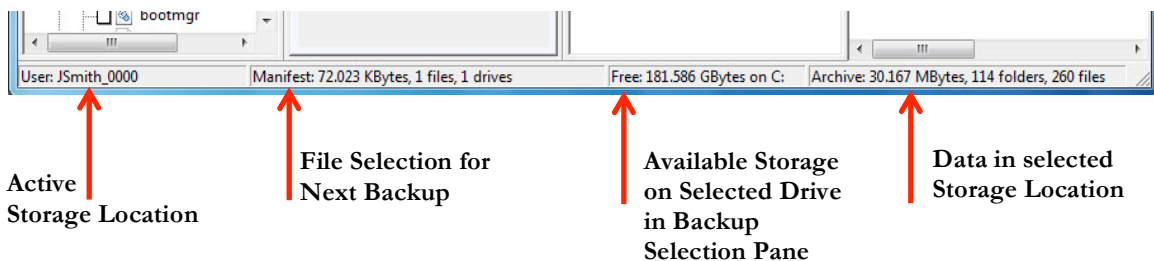
6.2. The Tool Bar

The Tool Bar contains shortcuts to commands that are also located in the Menu Bar. The Tool Bar is a subset of the commands in the Menu Bar and is provided as convenience. The Tool Bar can be turned on and off from the 'View' menu.



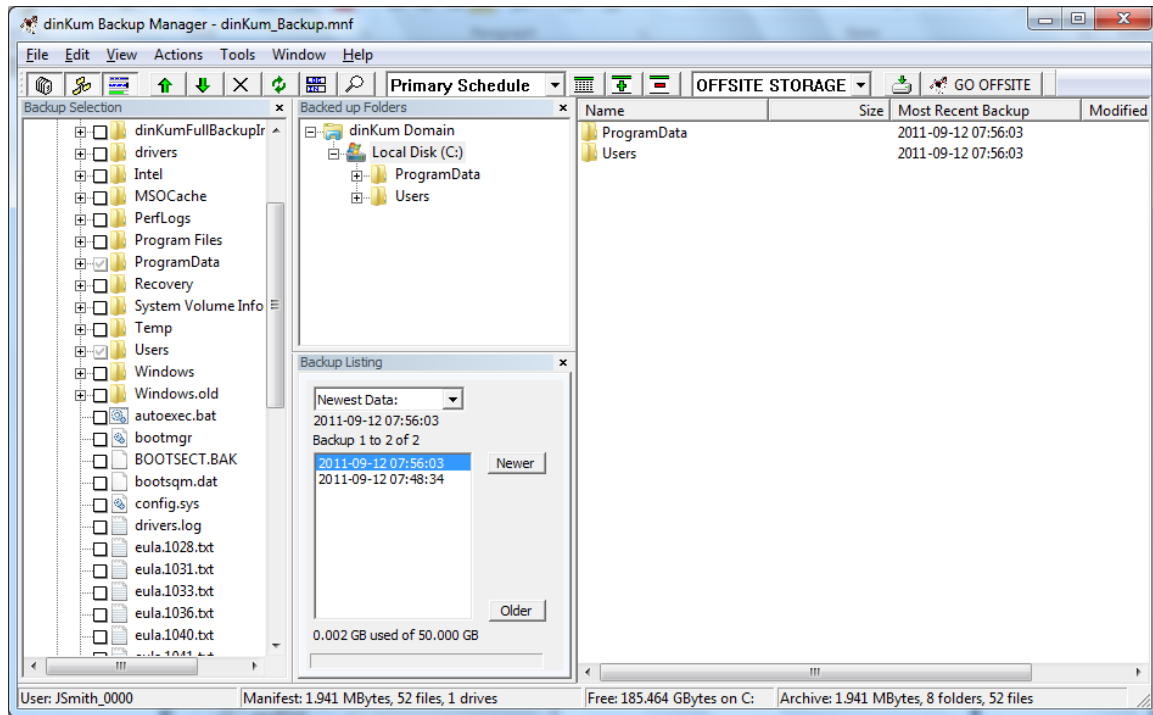
6.3. The Status Bar

The Status Bar is located at the bottom of the Backup Manager and contains information in regards to current backup location, the size and number of all selected files that will be backed up during the next backup session. When an archive, folder or file is selected from the offsite storage location then the size, number of folders and files are displayed. This information is useful in the case of data restore when only subsets of data are needed. This can shorten the restore time.



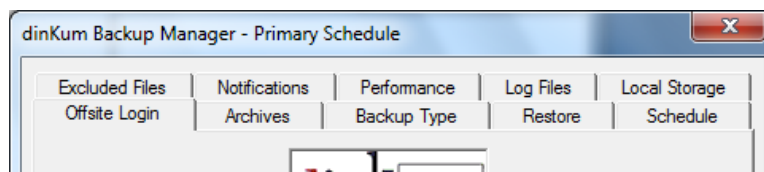
6.4. The Window Panes

The 4 window panes of the Backup Manager can be resized and the 'Tool Bar', 'Backup Selection' Pane, 'Backup Listing' Pane and 'Backed up Folders' Pane can be moved around independently (select with mouse and drag), which allows for individual customization of the screen.



6.5. Backup Settings

When selecting the 'Settings' option from the 'Edit' menu of the Backup Manager allows for configuration of the backups and restores that go far beyond the initial configuration wizards' options. Many of these options are preconfigured to common defaults but can be changed based on the user's needs. On the following pages we will look at the tabs of the configuration options shown below.



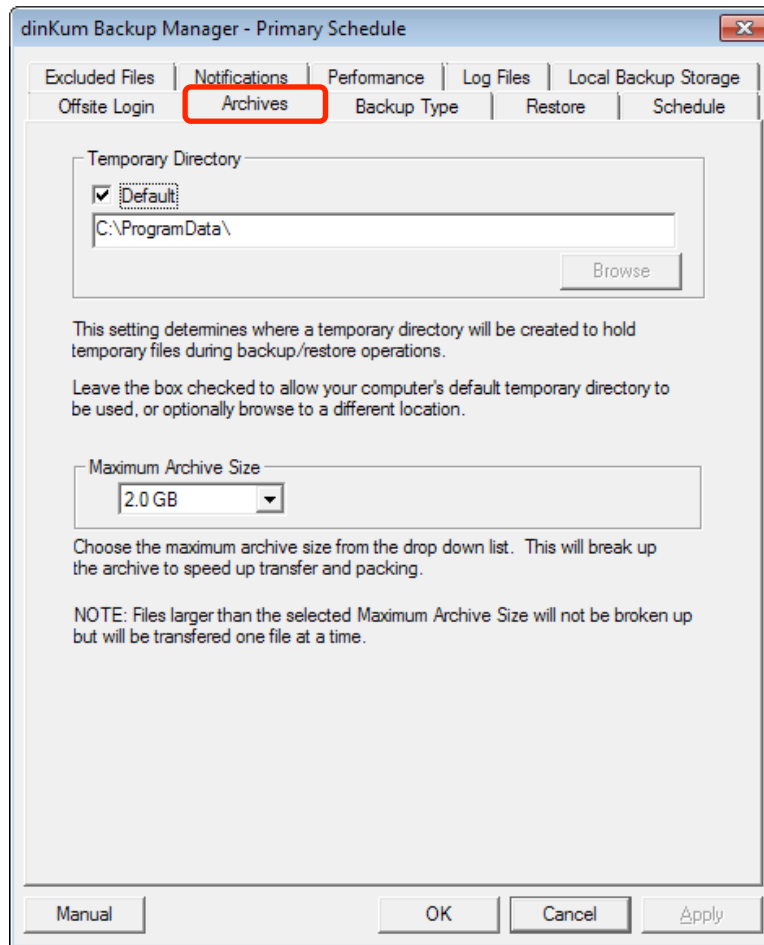
Each schedule has its own settings for configurations and can therefore be very different from other settings. The chart in section 10.5 shows the schedule dependent settings that are possible to configure independently. Some settings are defined globally to all schedules but most can be defined separately for each schedule. Changing the settings applies to the selected schedule when in the 'Schedule View' otherwise, changes to settings apply to the schedule selected in the drop down list of the toolbar.

When selecting the 'Settings' option from the 'Edit' menu of the Backup Manager the following screen will open.

The screenshot shows the 'dinKum Backup Manager - Primary Schedule' window. The 'Offsite Login' tab is selected and highlighted with a red rectangle. The window contains the following elements:

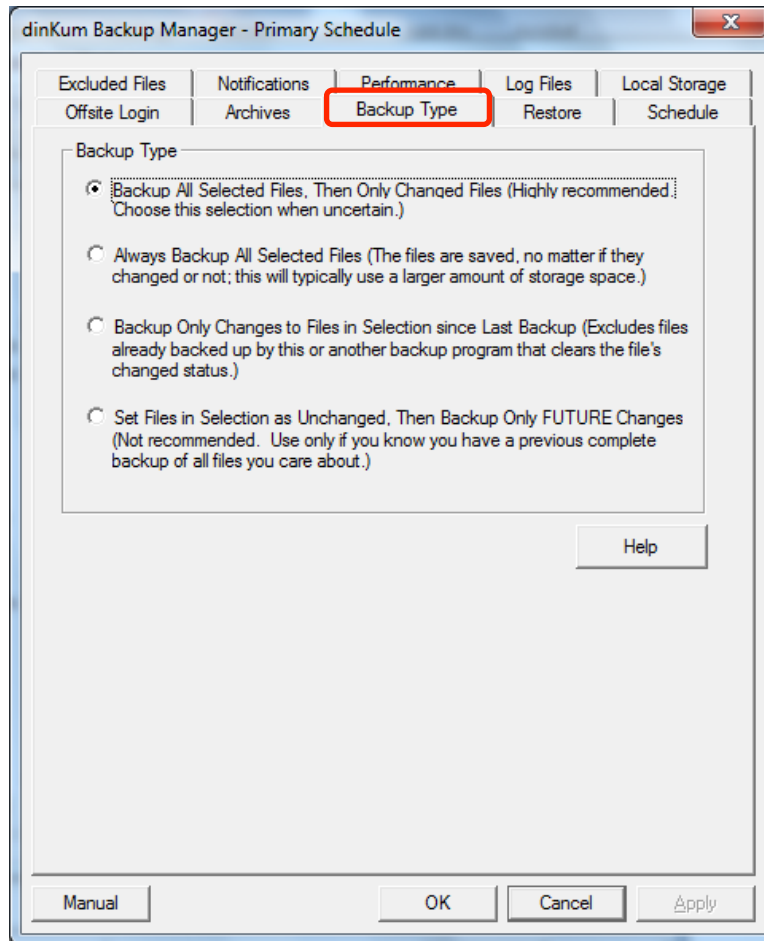
- Navigation Tabs:** Excluded Files, Notifications, Performance, Log Files, Local Storage, Archives, Backup Type, Restore, Schedule.
- dinKum Data Backup Logo:** A logo featuring a dog and the text 'dinKum Data Backup'.
- Account Information Fields:**
 - Account name:
 - Unit: (with up/down arrows)
 - Password:
 - Remember Password: ☒
 - Change Password:
- Server and Port Fields:**
 - Server:
 - Port:
- Advanced Option:** A button labeled 'Advanced' with a note: 'The 'Advanced' button should only be used if requested by your Backup Service Provider support personel.'
- Bottom Buttons:** Manual, OK, Cancel, Apply.

At the 'Offsite Login' screen the account name and password needs to be entered in order to be able to connect to your offsite/online storage account. The remember password checkbox can be checked to store the password locally (it will be stored encrypted for better protection). When this box is not checked then the password needs to be re-entered every time changes to the settings are being made before these changes can be applied.

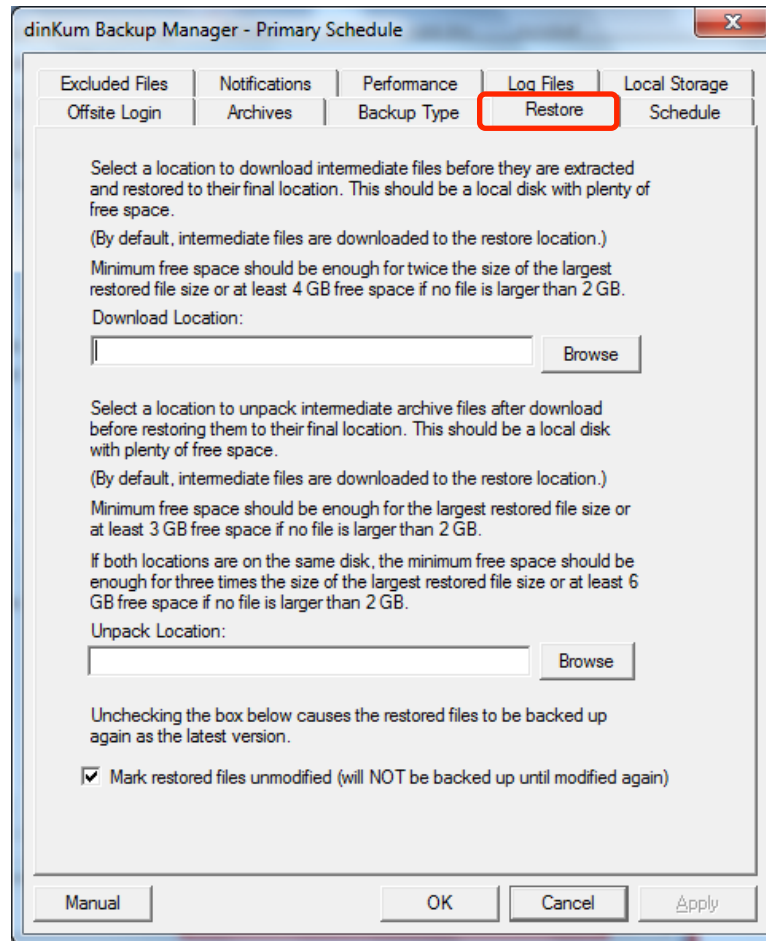


The backup program combines files and folders that need to be backed up into 'Archive' files that are encrypted and compressed before being sent to the offsite storage location. A directory needs to be specified that will contain a temporary directory to store these temporary files before they are transferred offsite. After a successful transfer the temporary directory and these archive files are then removed from your local system. The temporary directory needs to be local to the computer and cannot be a mapped drive. In the event that the backup process was interrupted due to a network outage or computer shutdown the backup software attempts to reconnect after a connection to the offsite location has been re-established and picks up from where it left off during transmission.

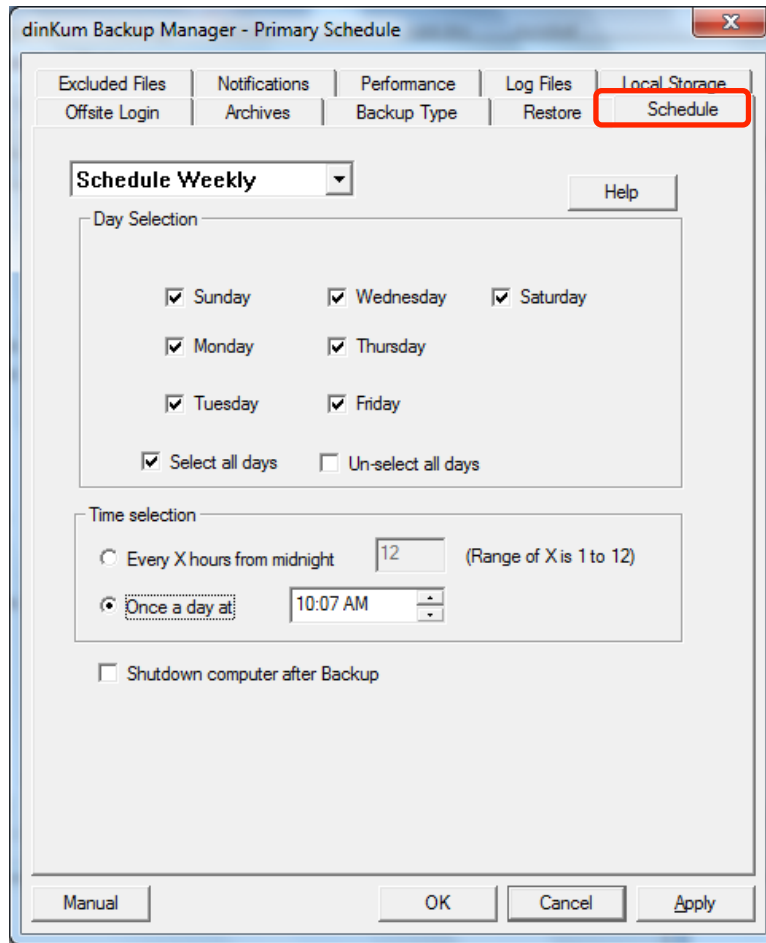
In the drop-down menu a maximum archive file size can be selected between 0.5 GB and 4 GB. Should a file be larger than the maximum selected archive size then only this one file will be packed into the archive. The archive size can then be considerably larger and is based on the individual file size. Large archives take longer to transmit than smaller archives and only after an archive has been transmitted completely all files and folders that it contains are backed up offsite. The log files contain details on which files and folders are part of each archive.



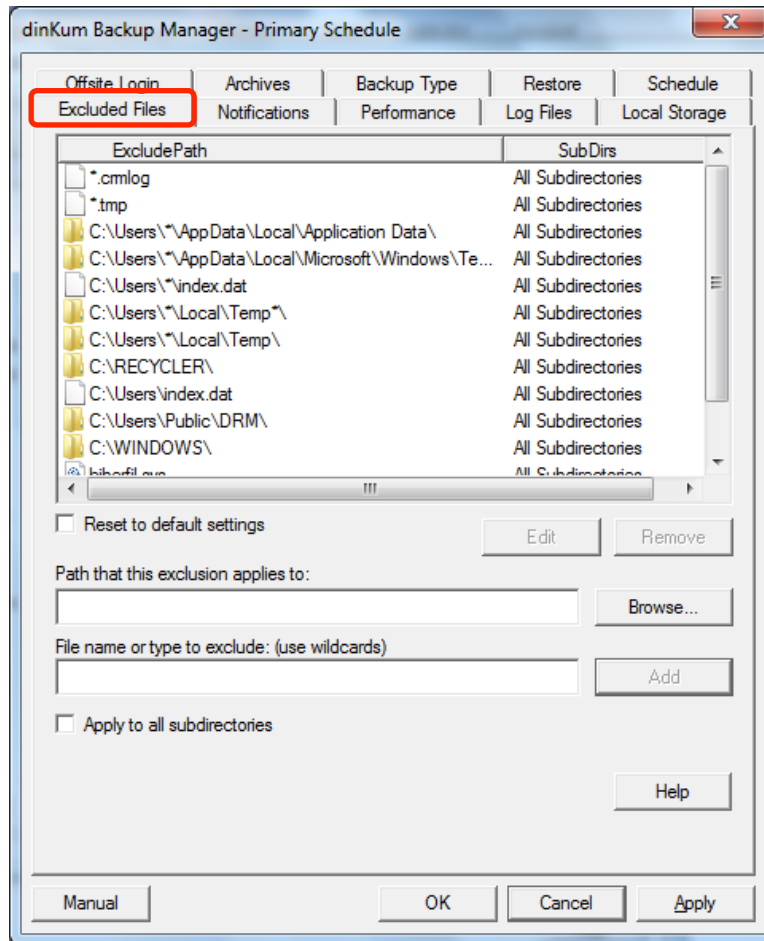
In the 'Backup Type' selection a user can decide how the backup process should select files for backup. Option 1 is the most common selection and when in doubt **should not be changed**. Here all files that are in the manifest selection will be backed up during the first backup process and after that only changes to these existing files or any newly created files will be backed up. Option 2 will always backup all files in the manifest independently of changes to any file. Option 3 will only backup changed files that are part of the manifest selection. On a system that has never been backed up before Option 3 will function like Option 1. Should a complete backup exist and it is intended to only backup new files or changes to existing files then Option 3 will only backup those changes. Option 1 would do a complete backup of all files again before just backing up changes. This case would only occur if the dinKum backup software was re-installed and the user does not want to start over again. Option 4 is a special case that marks all files as being backed up without backing them up. After that only changed or new files will be backed up. This only makes sense when there is nothing on the computer that needs to be backed up because the computer just was backed up completely or it is a new computer that has no user files worth backing up, yet.



Restoring data from an offsite account requires space on your local computer to download the restore archives. Restore archives are different from your backup archives since those archives are packed on the offsite storage location and based on the selected files that need to be restored. The restore archives are progressively increasing in size during the restore process. First, small archives are packed and transmitted and while these smaller archives are being processed larger ones are created and transmitted to your computer. This process maximizes the restore speed considerably. Therefore, a storage location for the received archives is needed to hold them temporarily and an unpack location is required that holds the files that are being extracted from the archives before these files and folders are put in the user specified final location on the computer. Both, the 'Download Location' and the 'Unpack Location' are temporary storage locations and the files will be removed from these locations after a successful restore process. Once the restore process is complete the restored files and folders will be available in their specified locations. Usually, files that are put back onto the computer are marked as new and would therefore be backed up again. Since these files have been restored from the offsite backup location they still exist there as well and there is usually no need to back these up again unless they have been changed. Therefore, the checkbox 'Mark restored files unmodified' is checked, which will prevent these files from being backed up again.



The schedule refers to the dates and times an automated backup process starts und runs. Depending on the selection from the drop-down menu the backups can be unscheduled meaning they will be initiated manually or run at a specified day and time. There is an option to shut-down the computer after the backup has completed.

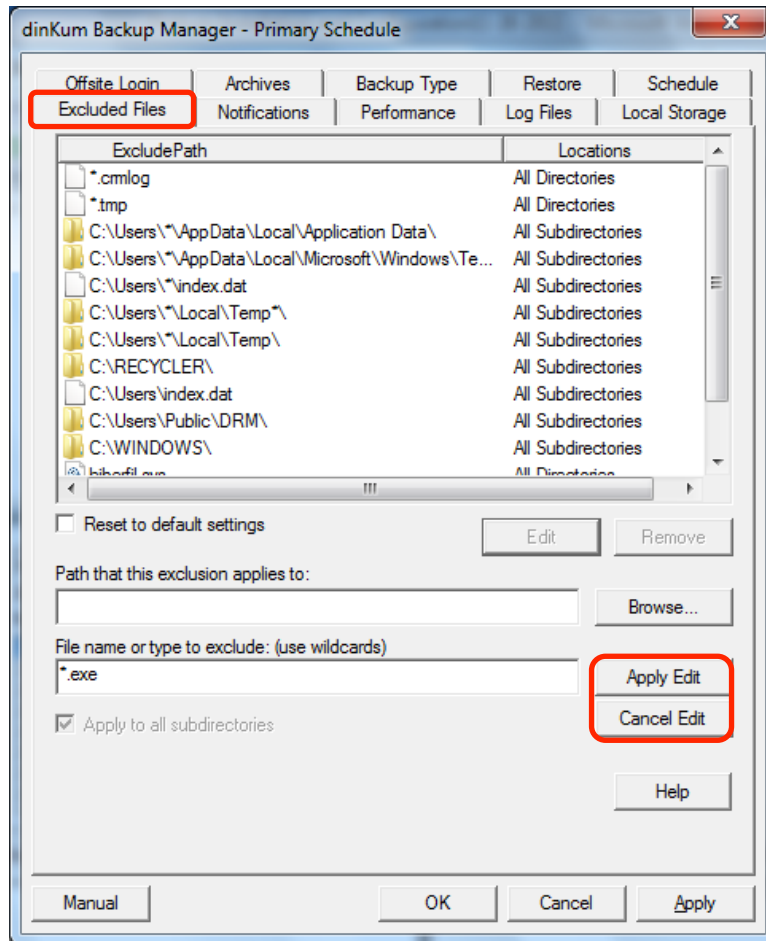


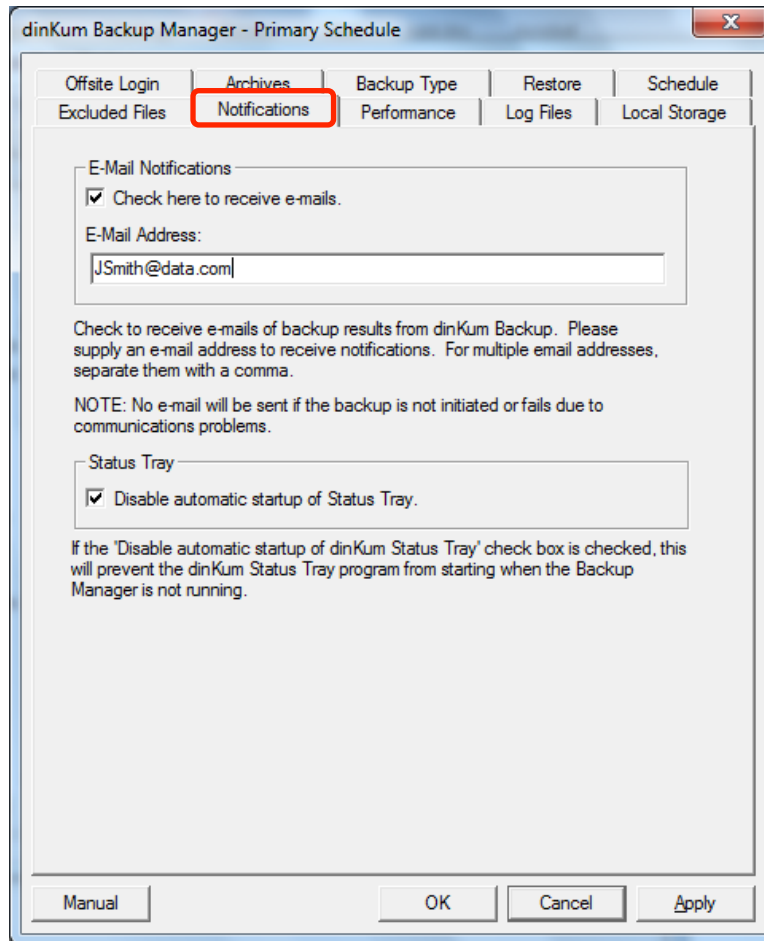
In the 'Excluded Files' list files and folders are specified that are excluded from being backed up. This list supersedes the manifest selections if there is an overlap.

Also, a user can specify additional files and folders to be excluded from being backed up in order to reduce the amount of unnecessary storage space or shorten the backup time. Usually, excluded from backup are temporary files, deleted files that are still in the recycle bin and Windows operating system files.

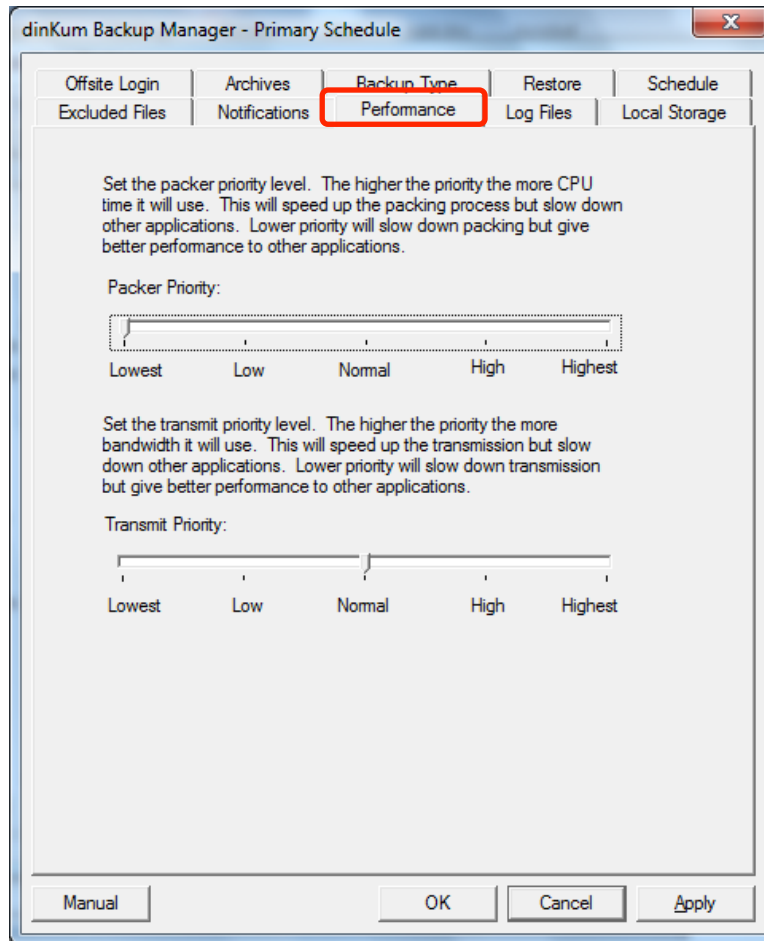
The use of wildcard characters such as '*' (star) or '?' (question mark) are possible. A checkbox to reset the selection to its original state (default settings) is provided when a user wants to undo added selections.

In order to make changes to the list of excluded file types or folders select what you would like to change and click on 'Edit'. The window will change and the 'Add' button is replaced by two buttons – 'Apply Edit' and 'Cancel Edit' – see below.



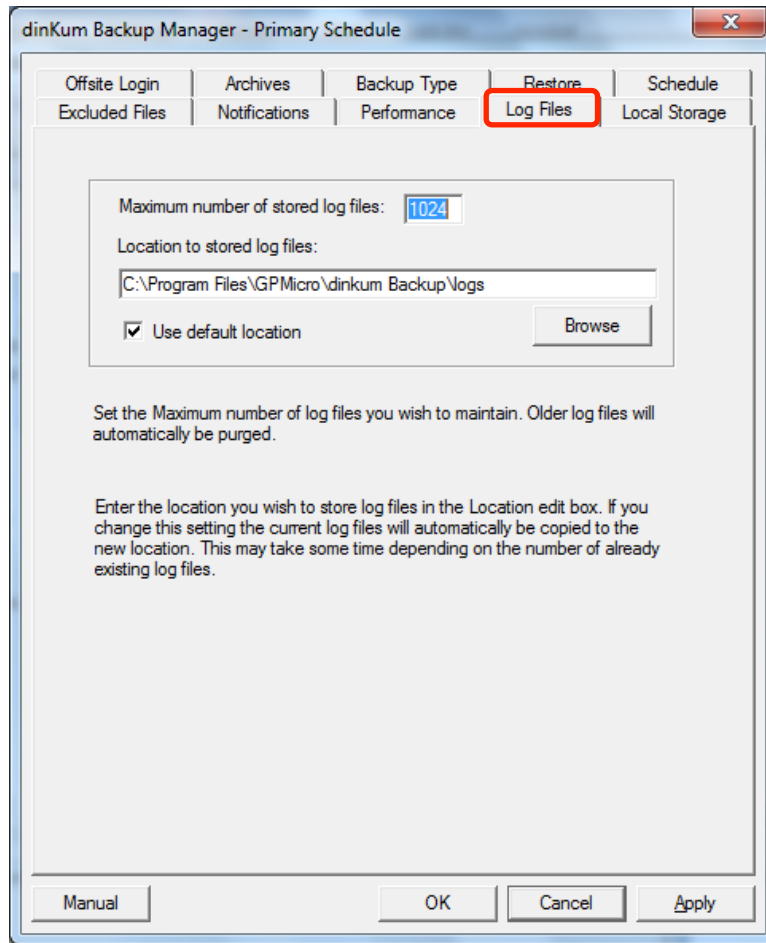


The offsite location can send email notifications to inform the user about the ongoing backup process. This allows administrators to identify problems should they occur without starting the backup manager software or to review the log files. The character limit is 500 and allows for multiple email addresses to be entered – separated by commas. The 'Status Tray' also provides feedback on the computer about the ongoing backup processes by popping up message bubbles. These messages and the 'Status Tray' itself can be turned off by checking the box under 'Status Tray'.

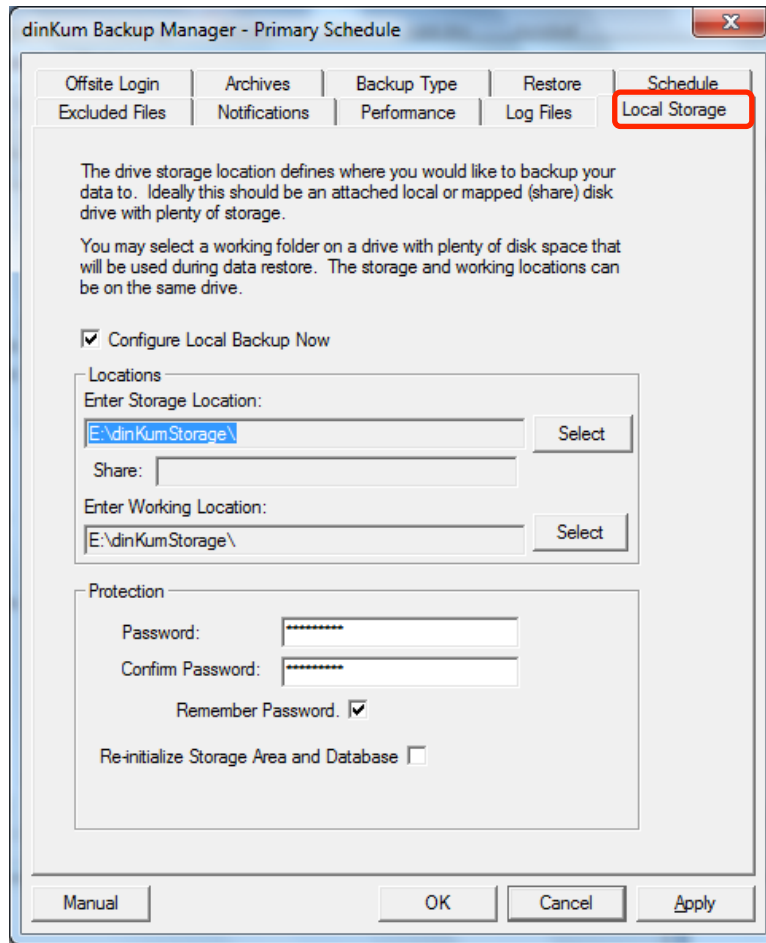


On the Performance screen you can adjust the packing priority and the transmit priority. By increasing the packing priority, the backup will use more of the CPU and finish faster. However the downside is that this will decrease performance on other applications. If backups occur constantly, you should leave the setting to 'Normal', the default. If backups occur at night when no other applications are running, you can increase the setting to improve backup times. The opposite is true, if you experience performance degradation during daytime backups, you can reduce the priority to improve overall performance, but this will increase backup times. If you are unsure, leave it set to 'Normal'.

The Transmit priority setting is similar to the packing priority in the sense that increasing performance will speed up your backup transmission to offsite accounts. This may decrease network performance for other applications. Lower the Transmit priority if you see performance degradation on other applications. Higher priority will shorten backup times while lower priority will increase backup times. If you are unsure, use 'Normal' this is the default setting.



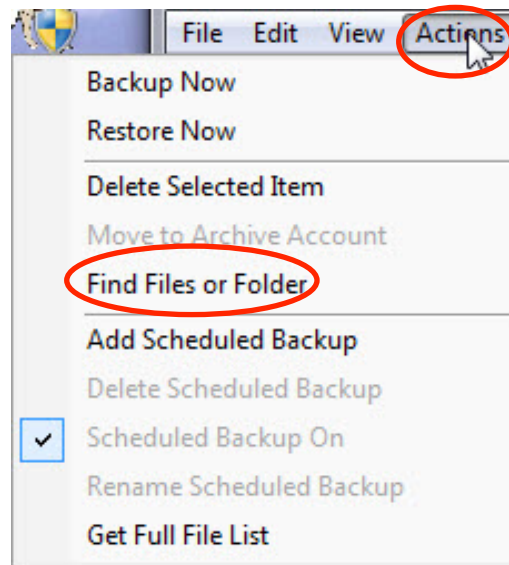
Log files are files that contain information about the past backup and restore processes. This information can be helpful for trouble shooting or is just informational in regards to what files have been backed up or which files have been restored. A location can be specified to store the log files as well as how many log files should be stored before the oldest log files will be removed.



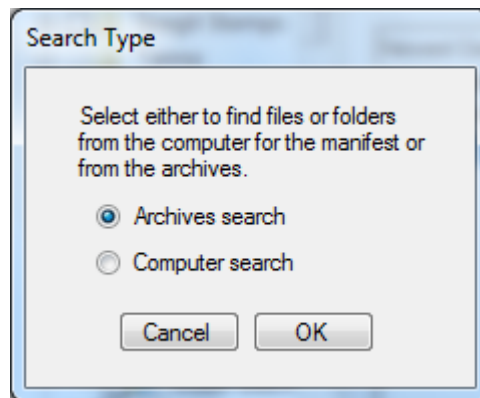
Here a local storage location can be specified. The storage location can be an internal, external or mapped drive (share) on a network. The content of the storage location can be password protected. Section 5.1 describes the setup in more detail.

6.6. Find Files and Folders

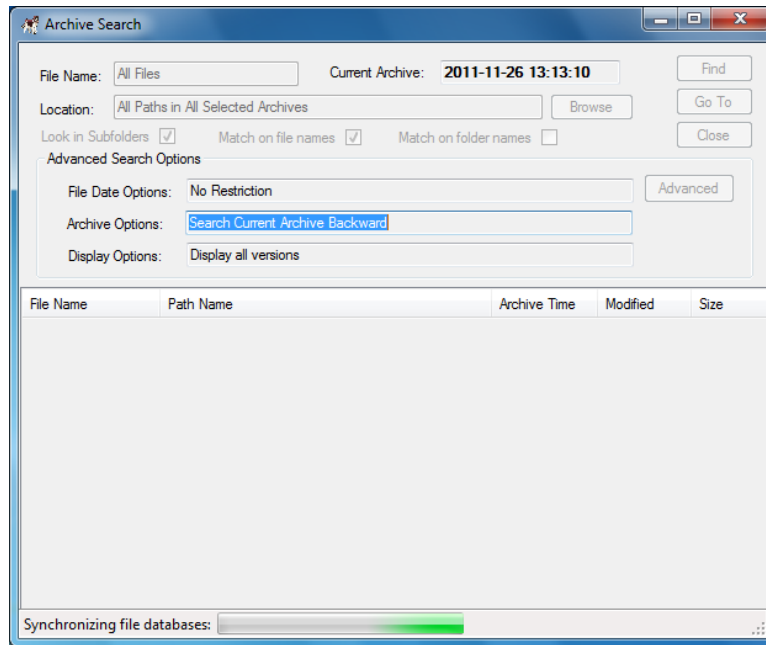
From the Menu bar select 'Actions' and then 'Find Files and Folders' which is a tool that helps to find data on your local computer as well as data that has been backed up.



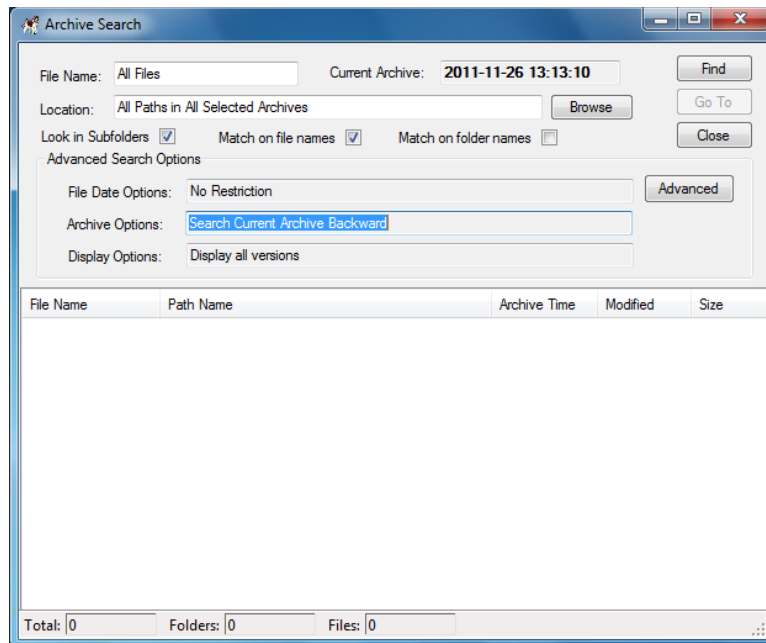
After starting 'Find Files and Folders' from the 'Actions' menu item the following window opens and offers a choice between searching the backed up data (**Archive search**) or data on the local computer (**Computer search**).



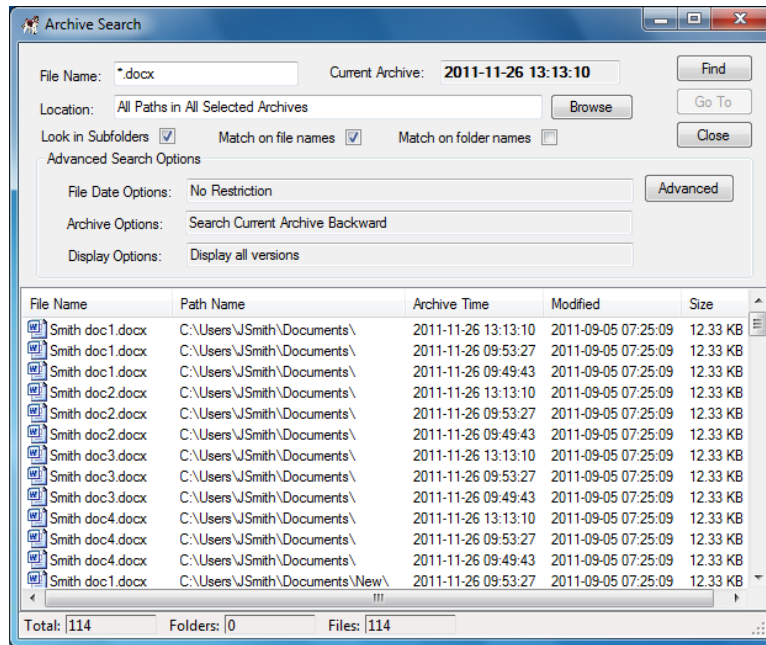
When 'Archive Search' is selected then the following window starts up.



During startup of the search tool an initial synchronization occurs that will help to speed up the search process. Once the synchronization is completed the tool can be used for file and folder searches.



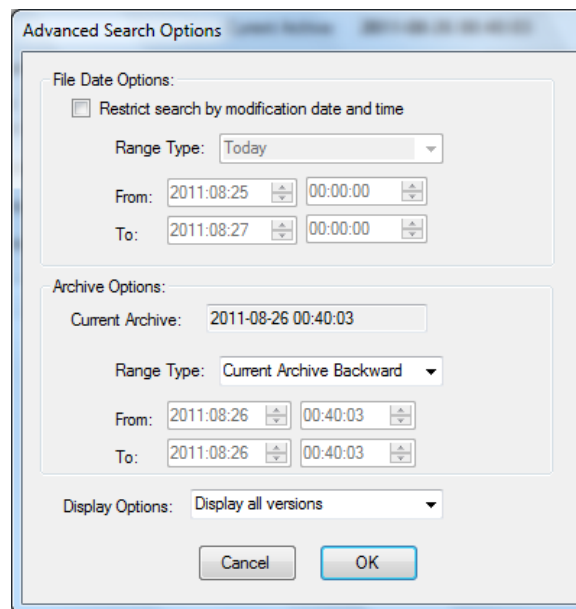
Now the file or folder names can be entered including wildcards as well as a preferred search location (folder path) with the help of a 'Browse' button.



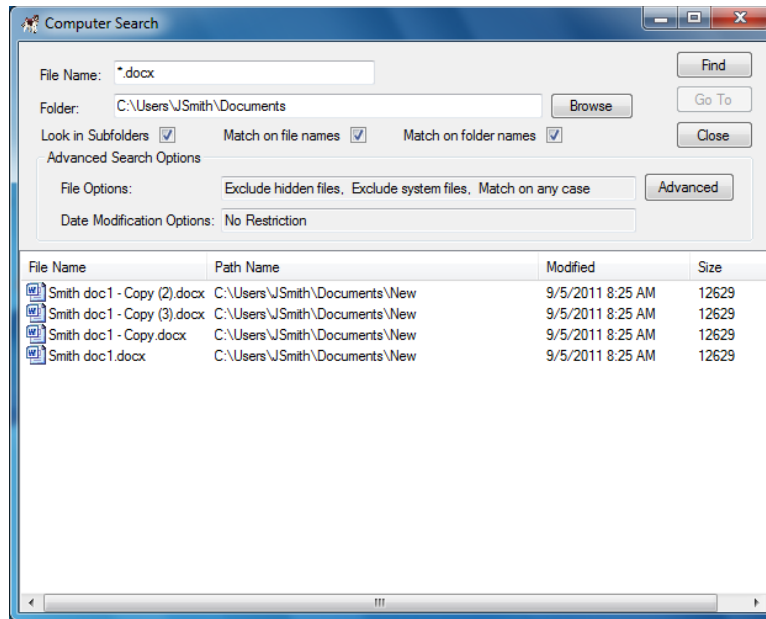
The file view window shows the search results. When you select a file and click on the ‘Go To’ button or just double-clicking on a file will take you to the file location in the Backup Manager.

Under ‘Advanced Search Options’ the following window pops up and offers further configuration options such as a selection of specific date and time ranges for the search or a selection of specific archives or archive ranges. Furthermore, there is a choice regarding the file versions to be displayed, e.g., only the newest file version or all file versions.

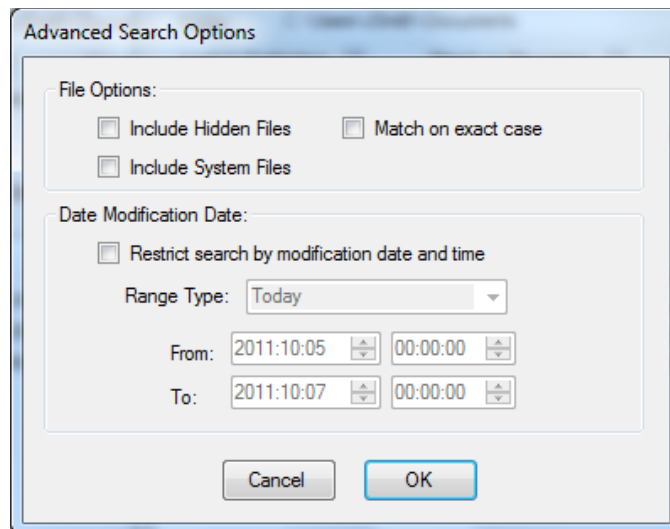
In order to activate the changes in the ‘Advanced Search Options’ window it is necessary to check the check box next to ‘Restrict search by modification date and time’.



When 'Computer Search' is selected then the following window appears with similar selections as described under the 'Archive Search'.



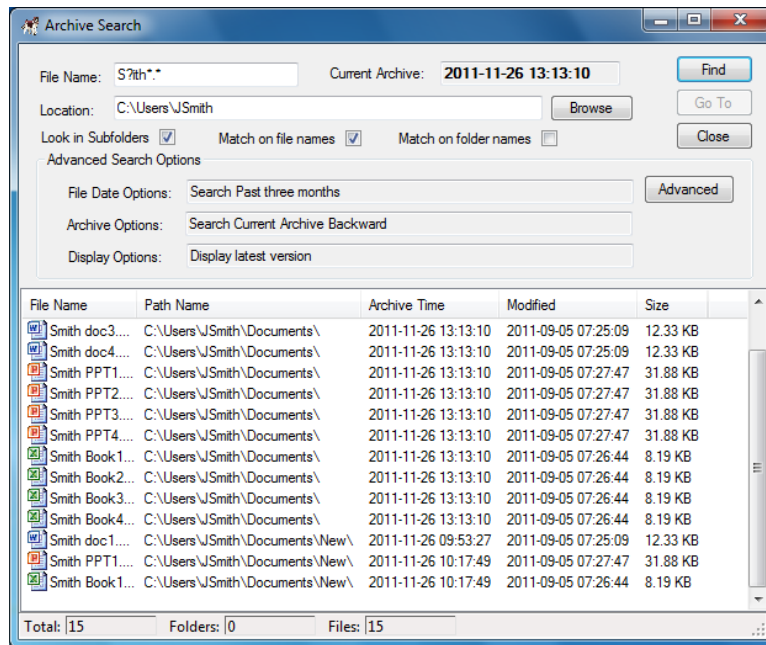
The file view window shows the search results. When you select a file and click on the 'Go To' button or double-clicking on a file will take you to the file location in the Backup Manager.



The advanced search options allow for configuration of the search which can speed up the search considerably.

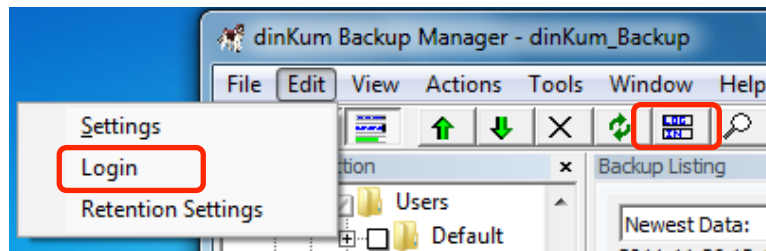
Search Tips: When the extension of a file is known but not the name a 'star' = * can be used as a wildcard for the name such as '*.jpg' which will look for all files with this extension. When part of the name is known as well then this information can be used e.g., 'my*.jpg' or '*my.jpg'. When the number of characters is known then a '?' can be used instead of the unknown characters, e.g. '????.jpg' will look for 4 character long files with the extension '.jpg' such as '1234.jpg' or '1020.jpg' or

AbcD.jpg, etc. There are many ways the '*' and the '?' can be combined with letters and numbers in order to speed up the search and limit the potential matches. The advanced options allow further limitations such as limits by dates, times, file types and sizes.



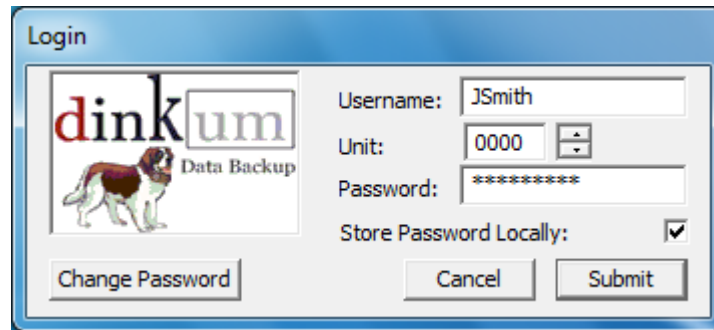
6.7. Login and Password Changes

The 'Login' shortcut can be found on the Tool Bar and under 'Edit' off the Menu Bar.

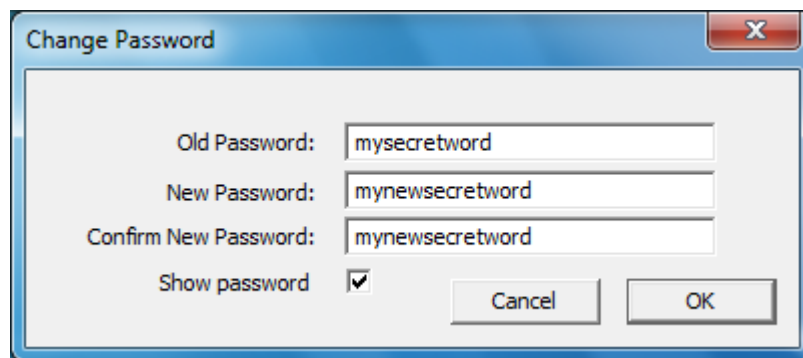


In the 'Login' window the user credential can be changed for access to different online accounts. Usually, the 'Username' is the same but there might be different units associated with this username as well as passwords.

Note: Automated backups require that the passwords are stored locally and the box is checked.



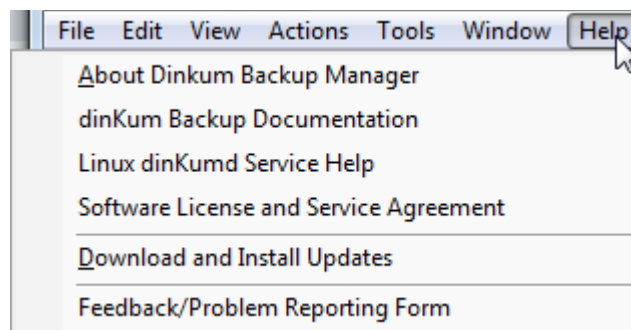
Passwords can be changed when selecting the ‘Change Password’ button for each user and unit.



After a new password has been selected click on ‘OK’ to apply this change.

6.8. Software Updates/Upgrades

GPmicro, Inc. releases from time to time new versions of the dinKum Backup Software with new features and/or bug fixes. It is recommended to install these newer versions when available. When the dinKum Backup Software is installed and running on your computer you will be notified about new available updates. There is also the option of checking for updates from the help menu.

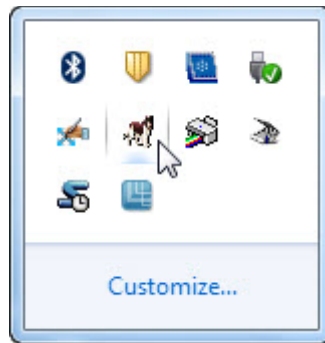


7. The Status Tray

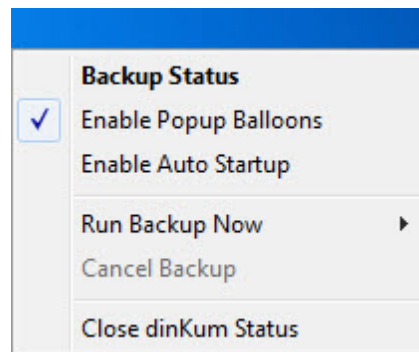
The Status Tray is a program that allows quick interaction with the backup process, shows progress reports and the configuration of messages that are initiated by the backup process.

The Status Tray program can start automatically when the computer starts, it can be started from the Programs Menu ('dinKum Backup' folder) and it starts when the Backup Manager is started.

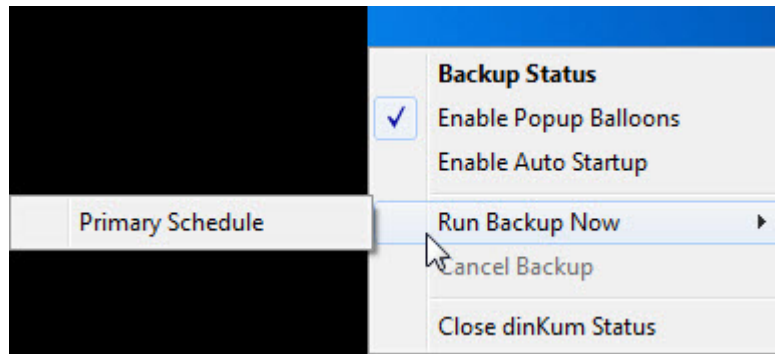
The Status Tray is located at the bottom right of your screen and indicated by the dinKum logo (dog).



Right-click on the dinKum logo and the following menu appears. From this menu you can enable popup messages (balloons), enable automatic startup of the status tray when the computer starts, start and stop (cancel) a backup and start the 'Backup Status' window that show progress of ongoing backups.



When selecting 'Run Backup Now' select a schedule from the schedule list and a backup starts immediately. In the example below only one schedule exists.



The 'Backup Status' window shows the progress of the backup process. In general a backup process can be divided into three main steps. For large backups each step can take a long time. Therefore, when you get started and want to monitor the progress select a small set of files and folders with less than 1 GB total.

First, the files and folder selected for backup from the manifest are grouped and prepared for packing in so called Archive files.

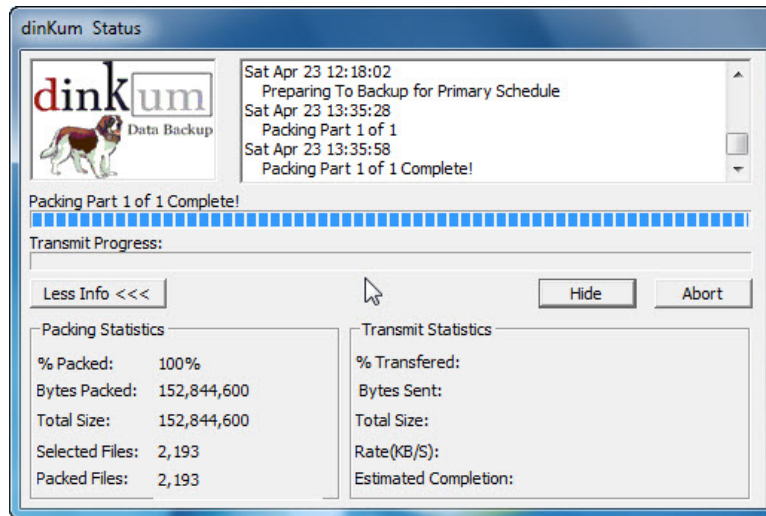
Second, the grouped files are compressed and encrypted and packed.

Third, the packed archive files are then transmitted offsite or stored on a local storage device.

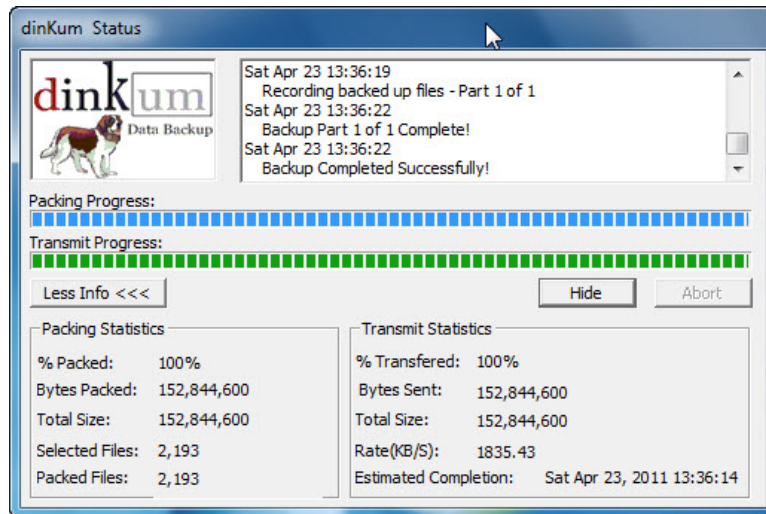
The blue progress bar shows the packing progress and the bottom left area of the window contains the packing statistics.

The progress bar for the transmission is green and the transmission statistics are shown on the bottom right including an estimated completion time.

The top part contains logging information on the total progress of the backup and serves as a history for recent backups. Once the backup is complete a log file is created that can be viewed with the 'dinKum Log File Viewer' located in the 'dinKum Backup' folder in the programs menu. There is also an option to start the log file viewer in the Backup Manager under 'Tools' and 'View Log Files'. There is a log file for each archive that has been created and each log file contains the file names of the files that have been backed up as well as other information.



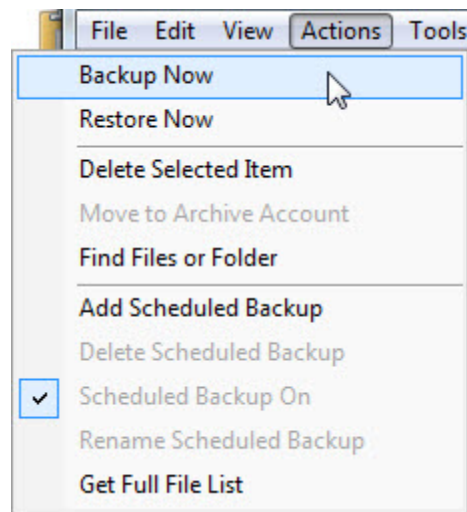
Below is a status view of a recently completed backup.



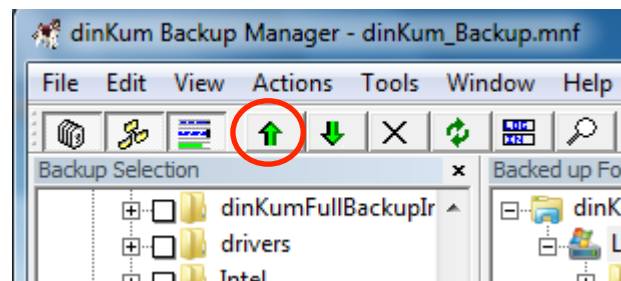
8. Starting a Backup

8.1. Backing up from the dinKum Backup Manager

The dinKum Backup Software runs scheduled backups automatically and in the background. The computer needs to be turned on in order for backups to occur but a user does not need to be logged on. The dinKum Backup Manager is a tool that can be used to change backup settings and selections but is not required for automatic backups to run. A system administrator can disable it in order to prevent users from making changes to backup settings. The dinKum Backup Manager can be used to start a backup without using a schedule by clicking on 'Backup Now' located in the Menu under the 'Actions' tab. This will backup the selections of the active manifest (Section 5.4).

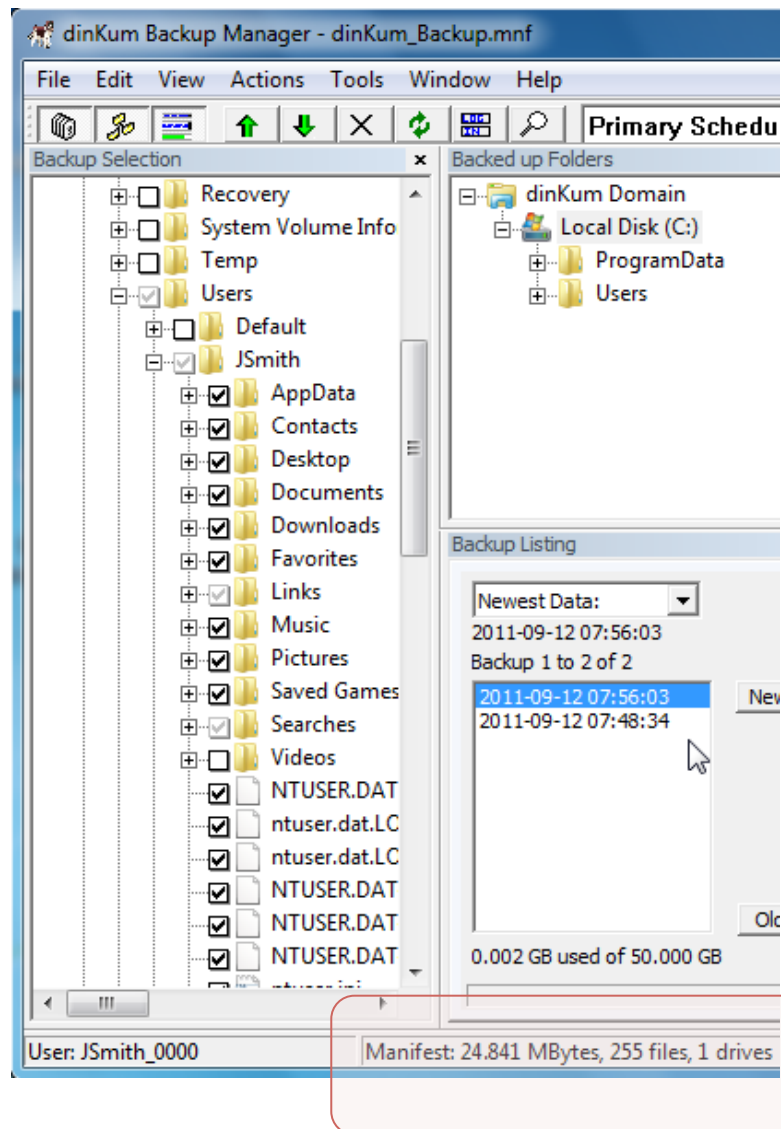


Another way to start a backup manually is by clicking on the green up-arrow on the menu.



As discussed in the Section 5.4 'Select Files to Backup' a file needs to be created that contains the files and folders that the user would like to backup. The name is shown above the menu and in the above example it is called 'dinKum_Backup2.mnf'. This filename can be anything you chose such as 'My_Daily_Backup'.mnf or 'Backup_of_my Docs.mnf', etc. The extension '.mnf' is short for the word 'Manifest' which is geek-speak for the files and folders selection file. There is no limit on how many manifests you create but only one manifest will be used per backup (the one selected as shown in the example above). If you would like to create a new manifest do the following. Start the Backup Manager from the 'dinKum Backup' folder from the Program Menu. The Backup Manager has four panes that can be individually re-arranged and resized to fit your

screen. In the example below the left pane is called 'Backup Selection'. In that pane you can expand folders and view the contents such as files and other folders by clicking on the boxes with the +. The folders can be collapsed by clicking on the -. When you click into an empty box next to a file or folder a checkmark ☒ will appear marking the selection. When you click in the same box again the checkmark will disappear. A checkmark is grey ☒ when NOT all files and/or subfolders are selected. This happens when you select a folder and then unselect a file or subfolder that is within that folder or when you select only one file or folder within an expanded folder.



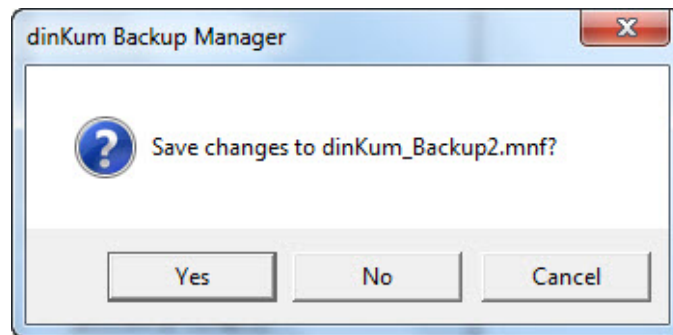
Important!!! There is an important difference in how folders are selected. These are the inclusive selection and the exclusive selection options.

Inclusive Selection: When a folder is selected ☒ this automatically selects all other files and folders in that folder. When at a later time new files and folders are created within that folder they will be automatically added to the selection and will become part of the backup manifest. There is no need to go back and use the Backup Manager to include these new files and folders.

Exclusive Selection: When you select all files and folders within a folder individually then new files and folders will NOT be added automatically. You will need to manually include any files or folders that you want included in your backup.

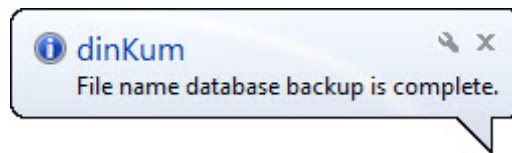
While selecting files and folders the Backup Manager shows the total size as well as the number of files and drives. The Backup Manager also shows the selected storage location (bottom left). In our example on the previous page it is E:\dinKumStorage\ a folder on the E-drive.

Once you are happy with your selection of files and folders for backup then save the new or changed manifest file by clicking on 'File' in the Backup Manager and select 'Save'. Should you forget to do this and select 'Backup Now' right away then the following dialog box appears prompting you to save the changed manifest. Select 'Yes' to save the changes.

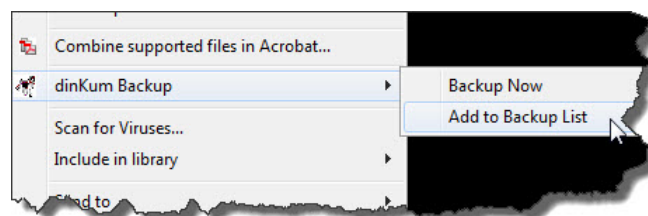


More options that can be configured for a manifest can be found in the menu under 'Edit' in 'Settings' (see Section 6.5).

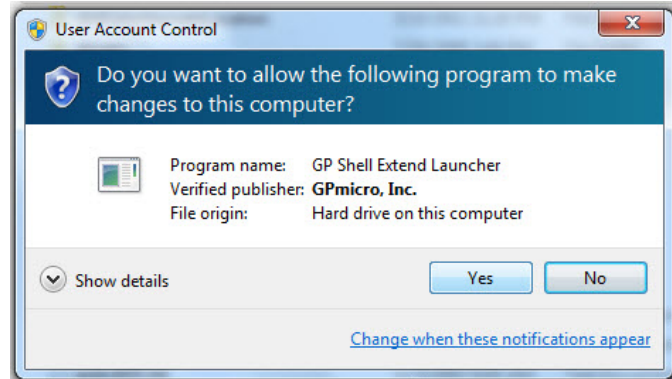
After saving the changes the backup process will begin and popup messages, which are displayed on the bottom right of the screen will show how the backup progresses. Once the backup is complete the following message will appear.



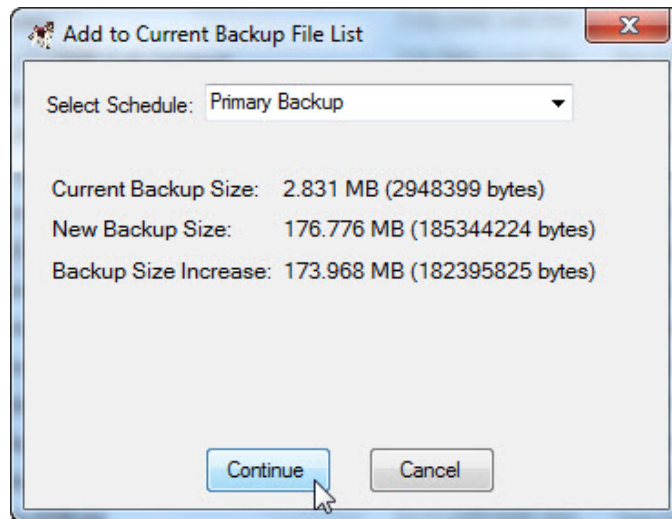
New files and folders can be added to an existing manifest without starting the dinKum Backup Manager through Windows Explorer. Select files and/or folders in Windows Explorer and right-click on your selection. In the appearing menu (see example below) select 'dinKum Backup' and then 'Add to Backup List'.



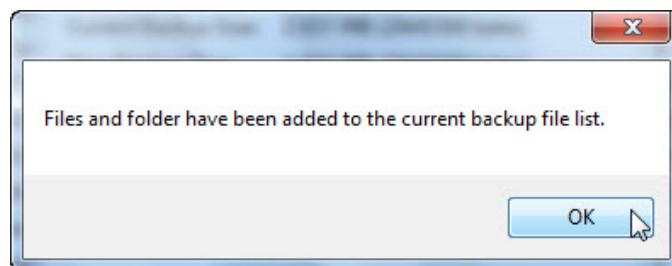
The following dialog might appear depending on your computer configuration.



Click on 'Yes' to continue. Then the following dialog shows the backup file list (manifest) details and the schedule can still be changed at this time. Every schedule can have its own manifest file. For more details see Section 5.3 on Schedule Backups.



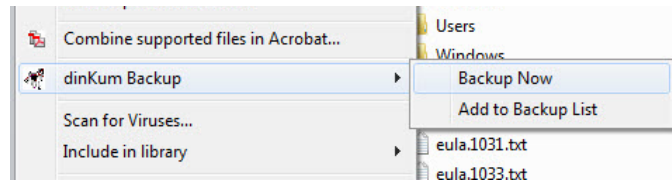
The dialog box shows the backup size of the existing manifest as well as the additional size and the new total size. Once you click on continue the following message appears and asks for confirmation. Click on 'OK' in order to proceed.



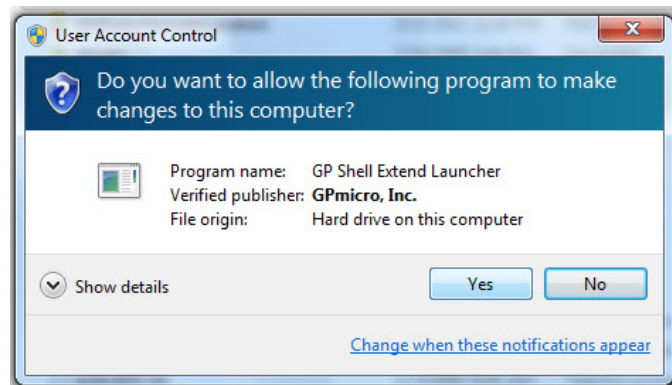
When the next backup runs for this schedule the new selection will be backed up.

8.2. Backing up from Windows Explorer

You can immediately backup a file or folder from the Windows file browser such as Windows Explorer by a right-click on the file or folder you want to backup and then select 'Backup Now' from 'dinKum Backup' located in the appearing menu.



The following dialog might appear depending on your computer configuration.

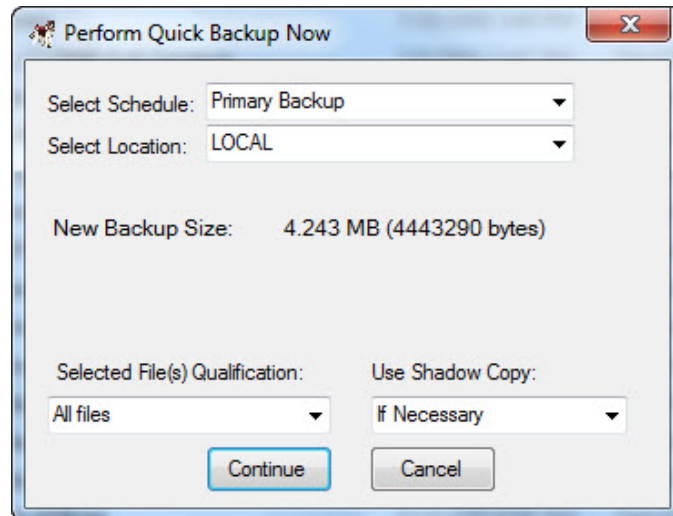


Click 'Yes' to continue. The next dialog box shows the backup details that can still be changed at this time.

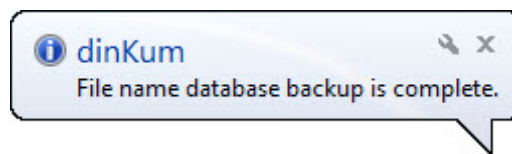
The last saved settings from the Backup Manager are shown in the dialog box and these are also the settings for the scheduled automated backups. Nevertheless, a different schedule and backup location can be selected at this time if needed.

Furthermore, a choice can be made if all selected files will be backed up or only the files that changed or only the files that were never backed up or changed.

IMPORTANT: 'Shadow Copy' is geek speak for backing up open files – meaning files that are in use by a program such as an open Word document. Shadow Copy only works for files on your local computer and not on mapped drives that are located on other computers. It is recommended to install the dinKum Backup Software directly on computers where you expect to backup open files. Otherwise these files will not be backed up.

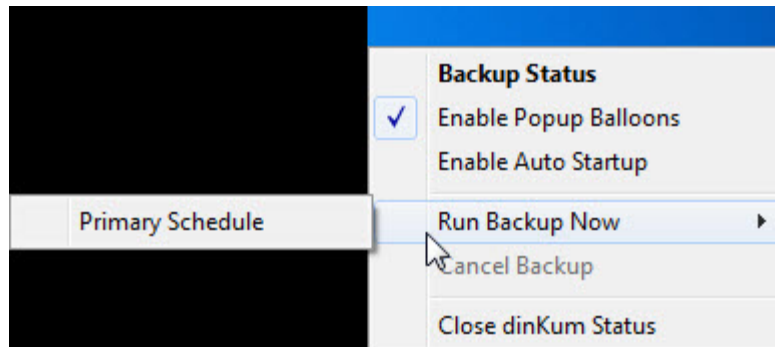


Popup messages at the bottom right of the screen show the progress of the backup operation. Once the backup is complete the following popup appears.



8.3. Backing up from the Status Tray

Another way to initiate an immediate backup without starting the dinKum Backup Manager can be done through the Status Tray that is described in Section 7. The Status Tray also allows selecting a schedule should several schedules exist. For more details on schedules, what they do and how to configure them see Section 5.3 about ‘Schedule Backups’.

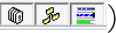


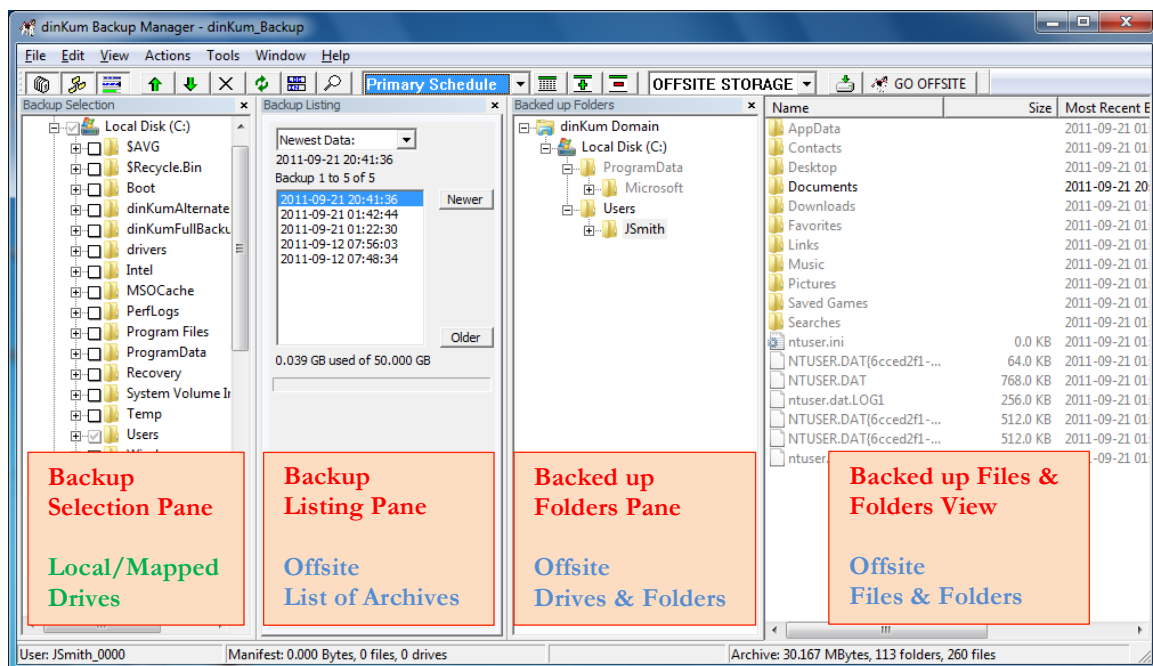
9. Restoring Data

Successfully restoring files and folders is the most important part of a backup and recovery plan. The day will come when restoring data is necessary and therefore it is highly recommended to test restoring some backups to an alternate location to become familiar with the restoration process so when the time comes, you will be confident you can restore the correct files.

Restores must be performed from within the Backup Manager. This means you should be familiar with the way the Backup Manager is organized and its various options.

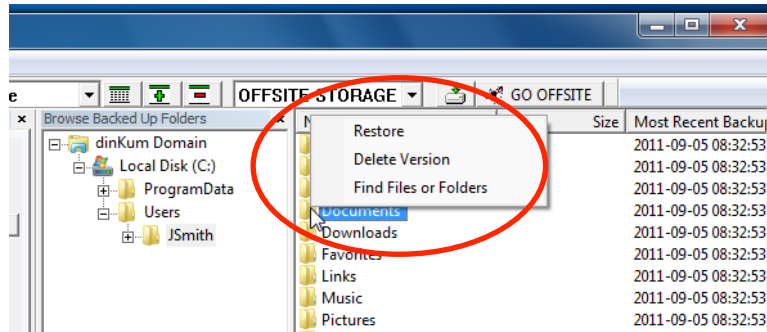
9.1. Overview

The Backup Manager is divided into four Panes – three Panes and one View. The panes are detachable and can be moved around, changed in size and location. This can be done by selecting the top part of the panes and while holding down the left mouse button and dragging the pane across the screen. They can be turned on or off from the Tool Bar (right most icons ) or from 'View' on the menu. By default, they are all turned on and visible. The left pane titled 'Backup Selection' is used to select files and folders for backup and shows the files and folders that are located on your local system. The remaining panes and view are used for viewing and restoring files that are located offsite or on your local backup device. It is possible to make selections for restore from any of these panes or view.

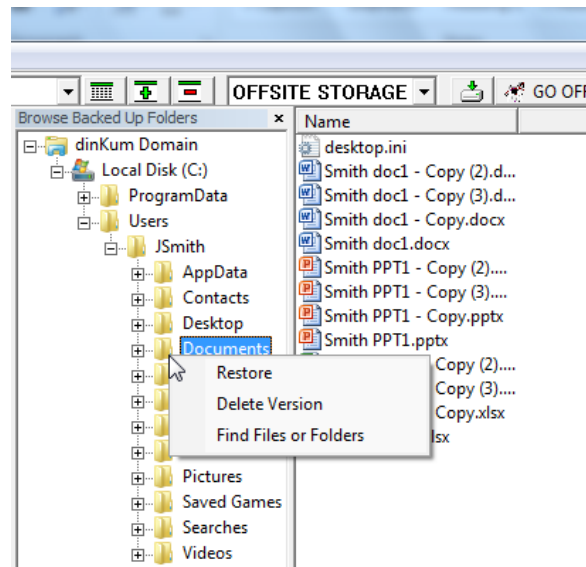


The 'Backup Listing' Pane is used to display the list of archives that have been backed up. The 'Backed Up Folders' Pane displays the folders contained in the archive(s) that is selected in the 'Backup Listing' Pane. The right most 'Backed up Files & Folders' View displays the files and folders from the selected folder located in the 'Backed Up Folders' Pane. You can

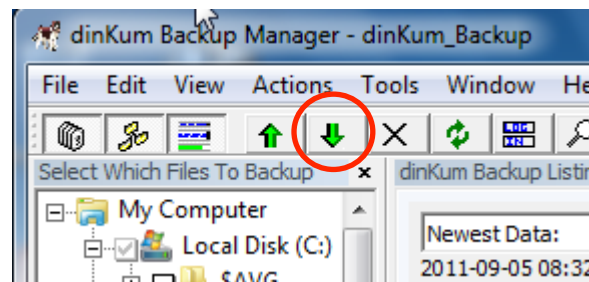
restore directly by right clicking on items from any one of these 3 Panes and clicking on restore from a context menu that is displayed at the mouse cursor.



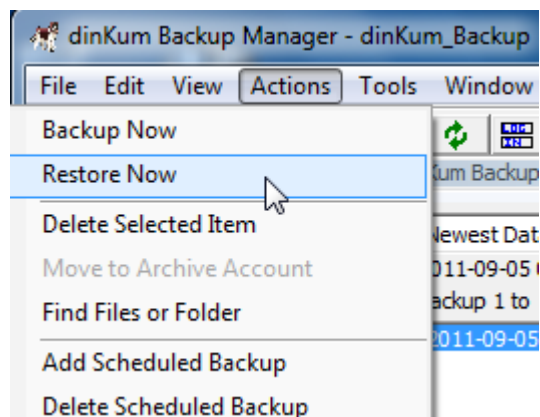
Or



You can also use the down arrow button on the Tool Bar.

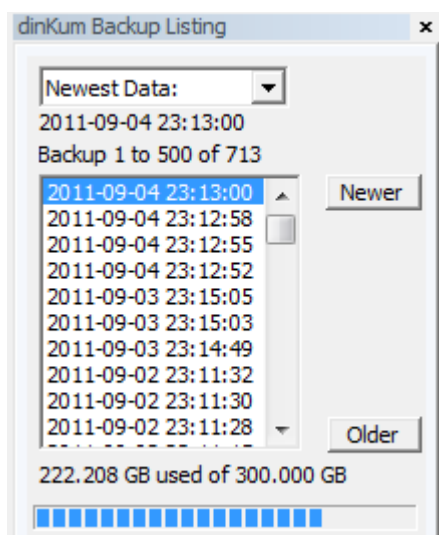


Or you can use the 'Restore Now' menu item from the 'Actions' menu to restore any selected item from the 'Panels'. This is equivalent to restoring from the context menus with the difference noted here.



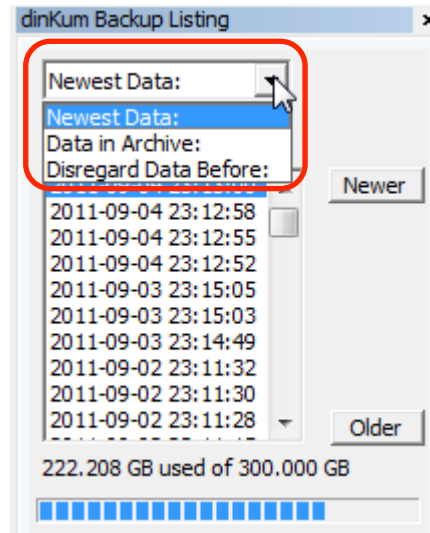
If you have items selected in multiple Panes and you use the menu or tool bar button, there is an order of precedence used to decide which Pane selection is used by the restore. If you have one or more items selected from the right most, files and folders view, then this will be restored, the other Pane selections are ignored. If you have an item selected from the 'Backed Up Files' Pane (and have nothing selected from the files and folders View), then this will be restored. And finally, if you have selections from the archives list but nothing selected from the other Panes, then the selections from archives list will be restored. You can unselect any selection by clicking into a white space next to what is selected.

The 'Backup Listing' Pane lists the backed up archives in your account. It displays up to 500 archives at a time. Directly above the archives the list count is displayed. If you have more than 500 archives, you can use the 'Newer' and 'Older' buttons to page through the archives. You can also use the vertical scroll bar to scroll the list up or down within the current page. When you click (select) an archive in the list, the 'Backed Up Folders' Pane changes the displayed folders to reflect the content of the selected archive.



dinKum Backup uses version control and stores multiple versions of the same file. Usually, the latest version of a file is the version that you want to restore. Nevertheless, there are instances when the latest version of a file is not the version that you want to restore. This

could be because the file on your computer got corrupted, infected with a virus or simply overwritten with wrong data before it was backed up. In cases like this you want to restore a previous version of that file. The dinKum Backup software stores up to 3 versions of a file when backing up offsite and an unlimited number of versions for local backups. In order to change the file and folder view based on date and time of the existing archives you can choose from three options from the drop down list at the top of the 'Backup Listing' Pane. The three settings are: 'Newest Data', 'Data in Archive', and 'Disregard Data Before'.



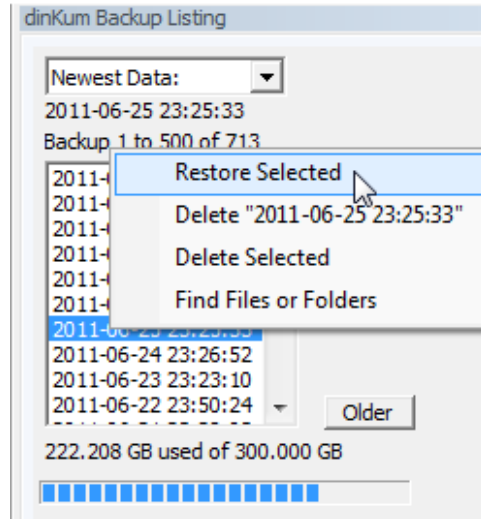
'Newest Data' causes the 'Browse Backed Up Folders' Bar to display the newest version of each file beginning with the date of the selected archive and all newest files that are in older archives.

'Data in Archive' displays only those files and folders that are contained in the selected archive.

The 'Disregard Data Before' option displays the newest version of files and folders from the newest archive up to the selected archive. All files and folders that are in archives older than the selected archive are not displayed (disregarded). This last option can be used to filter out files older than a particular archive date.

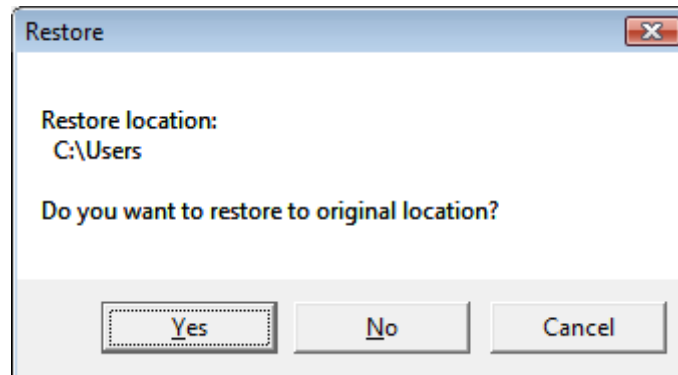
9.2. Complete Archive Restore

You can restore complete archives by selecting one or more archives from the archives list in the 'Backup Listing' pane.

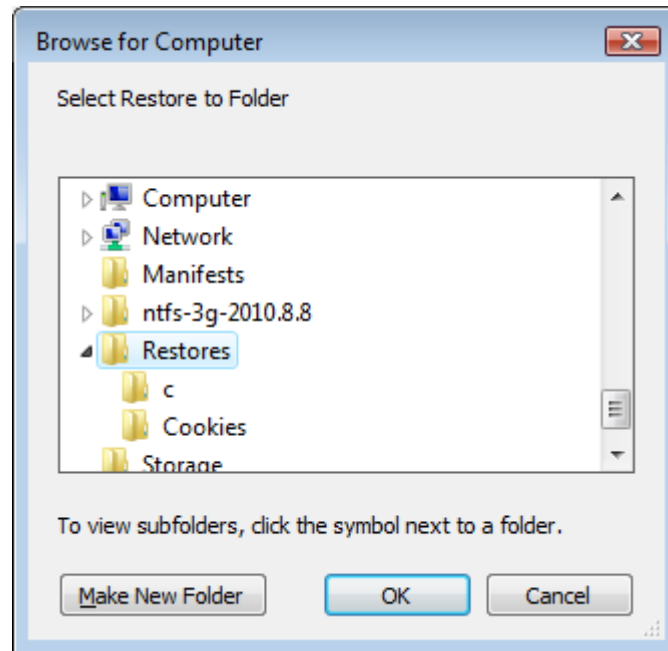


Restores from the files and folders view (right pane) are treated slightly different. If you select a single file, you have the choice of selecting both its restore location as well as the filename. Effectively, you can change its name during the restore process. When you choose multiple items in the list, you must choose a folder location and the selected contents and all that it contains will be restored to the folder during the backup process.

When the restore process is initiated by any of these methods described above, the following message will be displayed. You will have the choice of restoring data to its original location or an alternate location. Click 'No' to restore to an alternate location, otherwise click 'Yes'. You can cancel the restore at this point by clicking on the 'Cancel' button.

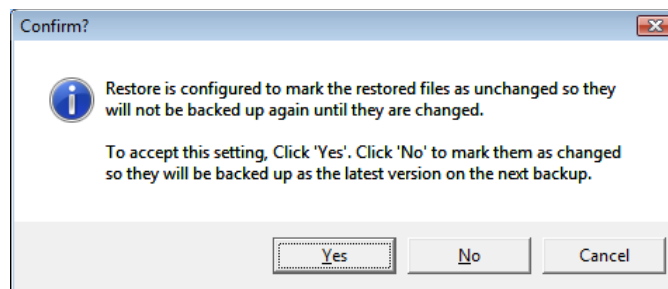


If you choose an alternate location, you will be presented with the folder selection dialog window. You can expand and select the location to restore to. Click 'OK' after you make your selection to proceed or 'Cancel' to cancel the restore. You can also use the 'Make New Folder' button to create a folder under the currently selected item in the list.



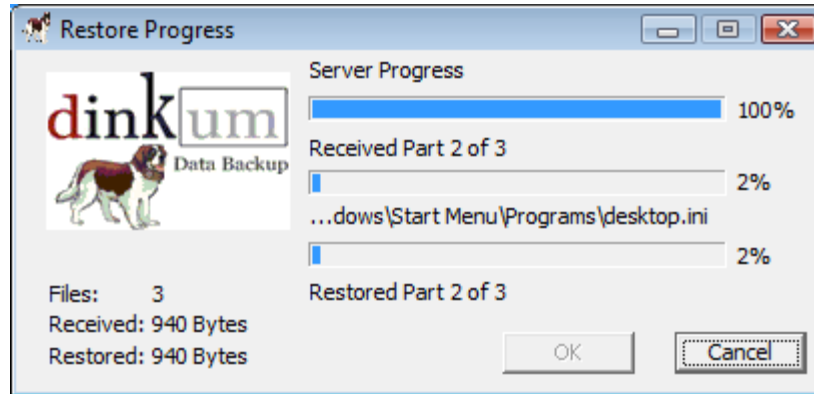
After selecting the location, a dialog box will be asked how to mark the restored files. This affects how the files will be treated on the next backup. If you select 'Yes' at the prompt, the files will not be backed up again on the next backup unless the files have changed since the restore. When 'No' is selected then the same files will be backed up again during the next backup even when they have not changed. You can select 'Cancel' at this point to cancel the restore. The answer to this question might seem unimportant since you are restoring files that are already backed up but this can affect future restores. If you are restoring older files and don't mark them as unchanged they will be backed up again and will become the newest files in the backup archives.

In most cases it is suggested to just click 'Yes' and to continue with the restore.



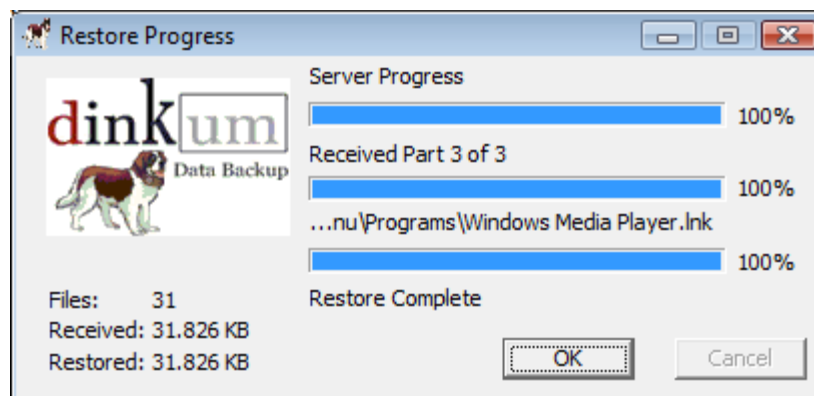
9.3. Restore Progress

After you make this selection, the restoration process will begin and the following progress window will be displayed. You can click 'Cancel' to terminate the restore process at any time.



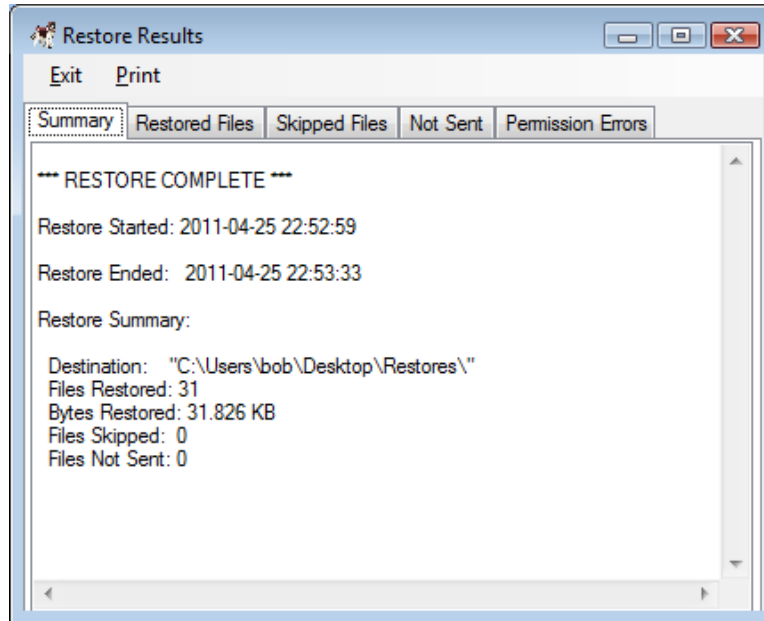
The progress window has three progress meters: Server Progress, Receive Progress, and Restored Files progress. These panes move independently of each other as the processes are running in parallel to achieve the maximum recovery performance. Restoration involves the offsite server as the server must compile the files from the storage locations, encrypt and compress them so they can be transferred to your computer. The server begins sending data in restore archives as soon as the first archive is ready. Then the restore program begins to extract and restore the data to your computer as the archives are received.

The statistics reported on this screen also displays the number of bytes received as well as files and bytes restored during the restore process.



9.4. Restore Results

When the restore process completes, click on the 'OK' button. This will display the 'Restore Results' window shown below.



The **'Restore Results'** window has 5 tabs that contain information about the files restored. The 'Summary' tab displays the overall information about the restore. This includes the start and end time, the destination of the restored files and folders, the number of files restored, the bytes restored, and files skipped or not sent.

The **'Restored Files'** tab contains a list of the files that have been restored. This list will not contain files that appear on the other tabs.

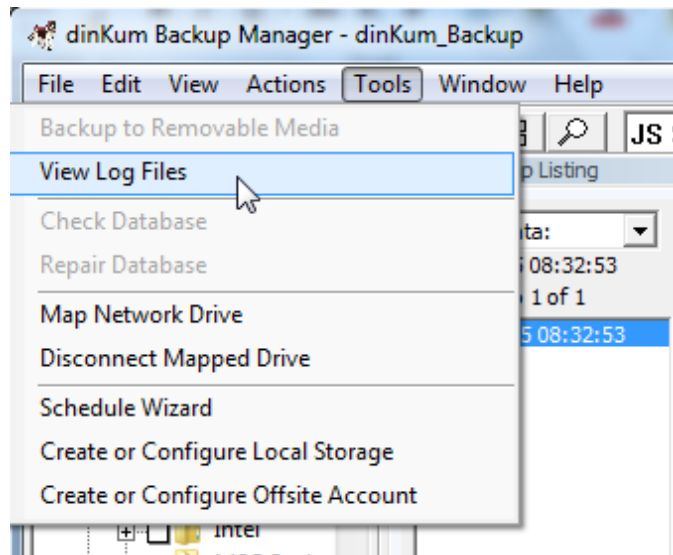
This **'Skipped Files'** tab displays files that could not be restored along with the reasons why the files were skipped. This could be because the file names are too long, or you might not have permission to write to the destination location.

The **'Not Sent'** tab will contain a list of files that could not be gathered from the server. If you have any files on this tab, you should try your restore again at a later time. If you continue to have problems please contact support at GPmicro.

The **'Permission Errors'** tab applies to files being restored to a Linux share. Normally this tab will display 'None'.

The **'Restore Results'** window also has a menu option to print the report. Be advised when using this option as the entire contents of all tabs are printed and this can be quite long.

After you review the results, click the 'Exit' menu option to exit the report. The restore is complete at this point. The Restore Results can also be viewed at a later time in the Log Viewer. This is located in the 'Tools' menu of the Backup Manager.



10. Backup Schedules

The dinKum Backup software supports multiple backup schedules to provide maximum flexibility for your backups. Schedules can be used to define backups of the same or different files to be backed up at different times to both your local storage area and your offsite account. For example, you could schedule daily local backups and weekly offsite backups.

During installation, the software automatically configures and creates the first schedule for you called the “Primary Schedule”. You can add up to 97 additional schedules and provide descriptive names for them as needed. A schedule defines which files to backup, the backup type (Full, Full/Changed, etc.), backup days/times, and the backup location (local storage area and/or offsite account.)

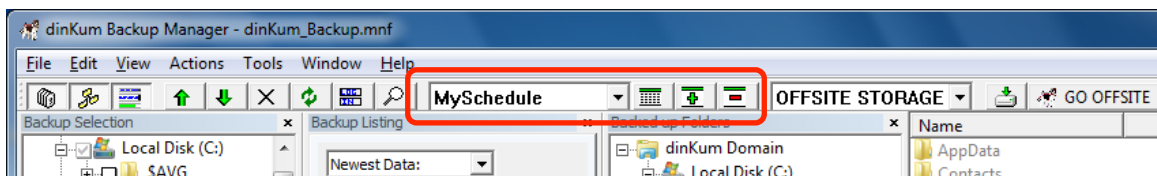
Almost any option that affects the backup can be configured on a per schedule basis. See the ‘Options Matrix’ for more information on which options are global to all schedules and which can be configured for each schedule.

The ‘Archive Client’ service is the backup agent that runs the backups based on the schedules you define. The ‘Archive Client’ only allows one backup to run at a time. When a scheduled backup occurs while another backup is in progress then the scheduled backup is delayed. The scheduled backup will run automatically after the backup in progress completes or is cancelled. The order of pending backups is indeterminate – it is therefore recommended to setup the schedules in the preferred order by selecting the time and dates appropriately. This is not critical when only one schedule is selected. A schedule can be changed at any time but the changes will not take affect if a backup is pending or in progress for the schedule.

10.1. Configuring and Using Schedules in the Backup Manager

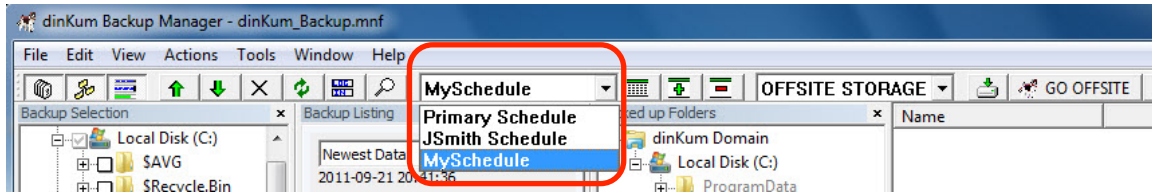
Schedules can be added, changed, or deleted through the Backup Manager application. In addition to defining backups for the ‘Archive Client’, schedules act as views while in the Backup Manager. For each schedule, you can define both a local storage area and an offsite account location to view in the Backup Manager, which can be different from other schedules. However, only one of these locations at a time can be used for the backup location when the backup occurs. The Backup Manager allows you to view either the local or offsite account storage areas without changing the backup location.

The buttons on the tool bar that are related to schedules are shown in the image below. These will be discussed in more detail later.

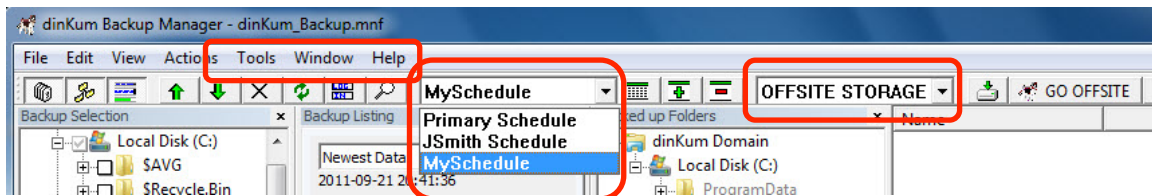


10.2. Changing Schedule Views in the Backup Manager

To change the Backup Manager view to that of a different schedule you select the schedule from the ‘Schedule Drop Down’ list from the tool bar shown below.

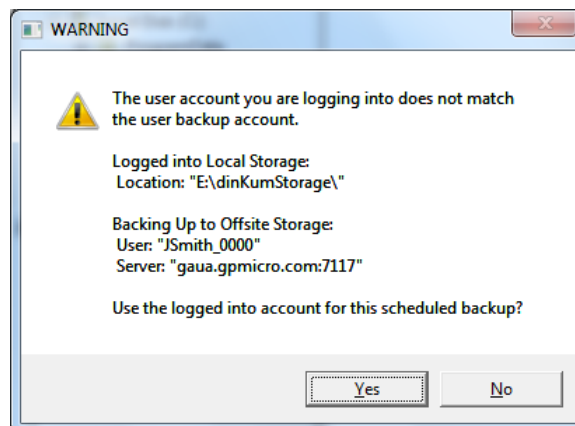


Changing the schedule view may cause other items to change in the Backup Manager if the selected schedule is different from the current one. For example, in the image below, the manifest file and storage area are different.



Since the manifest file is different in the example above, the selections in the ‘Choose Which Files To Backup’ have changed. The ‘dinKum Backup Listing’ pane’s archive list changed, the ‘Browse Backed Up Files’ pane, as well as the file list pane have also changed to reflect the ‘OFFSITE STORAGE’ location. In addition, the information displayed in the status bar at the bottom of the Backup Manager will change accordingly.

To change between local and offsite storage view for the current schedule, select the location from the ‘Storage Location Drop Down’ list from the tool bar. It is shown as the right most drop-down list in the image above. When you do so, you will be asked if you want to make the select location to be the backup location for the schedule. A message similar to the one below will be displayed.

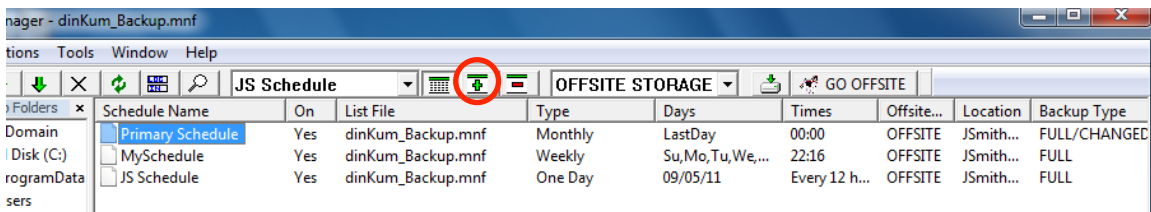


If you answer yes, the location viewed in the Backup Manager will be the same as the next backup for this schedule. If you choose no, the location viewed in the Backup Manager will not be the same as the next backup for this schedule.

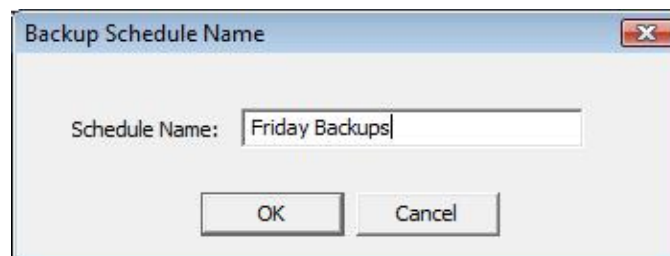
Changing between local and offsite storage causes the 'dinKum Backup Listings', the 'Browse Backed Up Files', and the file list panes in the Backup Manager application to change reflecting the new location. Information on the status bar will change as well to reflect the new location. The file list will not change however because it is assigned to the schedule, not the backup location.

10.3. Adding a New Schedule in the Backup Manager

To add a new schedule, you click on the Schedule Button on the tool bar shown in the image below. The add process will prompt you for a schedule name and then run the Schedule Wizard to allow you to make changes to the new schedule. When the wizard is complete, you will automatically be switched to the new schedule view allowing you to make other changes such as backup file selections or local and offsite storage location. The process is described in more detail below.



The add schedule function first prompts you for a new schedule name shown in the image below. Create a descriptive name for the schedule and click OK to proceed. You can change the schedule name later from the actions menu.

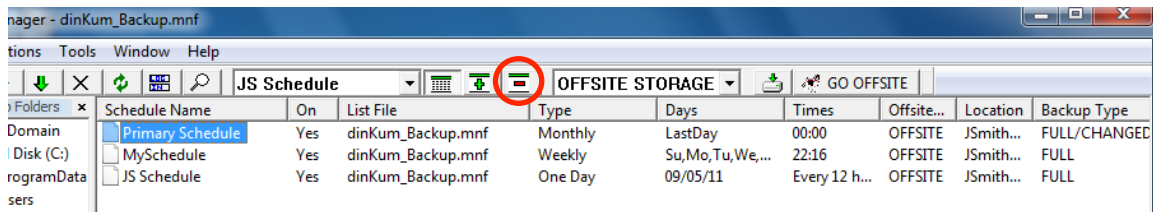


After you choose a name, the Backup Manager will copy the options selected for the current schedule you have selected as a starting point for the new schedule and then run the Schedule Wizard which will step you through screens to allow you to change the backup type, backup dates and times, backup files selection, backup performance options, local storage area, and the offsite storage location. You can click the 'Next' or 'Back' buttons to go forward or backward through the Schedule Wizard. If you click 'Cancel', the wizard will exit and leave the default settings. Since the schedule is copied from the current schedule, the new schedule will be a copy of the current schedule if you cancel the wizard.

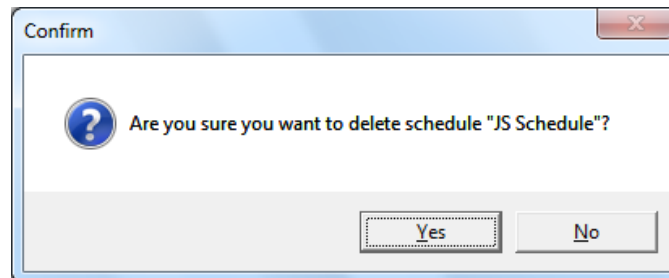
Refer to Section 5 for more information on configuring the backup schedule. Click the 'Finish' button when you are done entering your information and the wizard will complete and return you to the Backup Manager. You can change settings for this schedule at a later time from the 'Settings' option of the 'Edit' menu or by re-running the schedule wizard from the 'Schedule Wizard' option of the 'Tools' menu.

10.4. Delete a Schedule in the Backup Manager

To delete a schedule, you click on the Delete Schedule Button on the tool bar shown in the image below. You cannot delete the Primary Schedule.

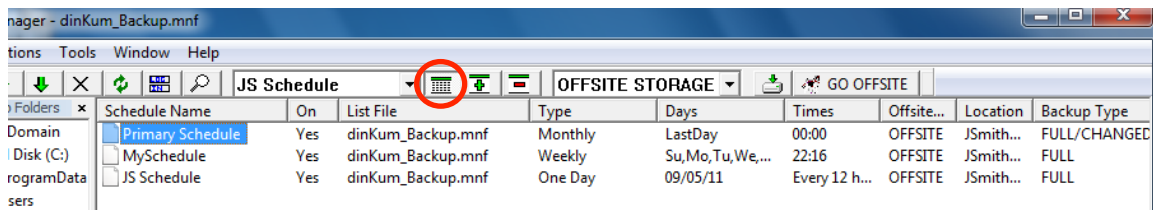


You will be prompted to confirm if you want to delete the schedule. Click 'Yes' to proceed otherwise click 'No' to cancel the delete. After the schedule is deleted, you will automatically be switched to a different schedule.



10.5. Backup Manager Schedule List View

You can display a list of your schedules in the file list pane (right most panes). To select this view click on the Schedule View button shown in the image below. The button will be pushed in while in this view. Click it again and the view will switch back to the archive file list view and the button will pop out again.



From this view, you can see important information about each schedule at a glance, such as the name of the schedule, if it is active, when and how often it runs and where it backs up to. It also makes it easier to make changes or perform functions on more than one schedule. Simply select a schedule and click on the button for the operation you wish to perform. If no schedule is selected while in this view or if you are in the file list view, operations will apply to the schedule in the schedule drop down list.

You can also right click on a schedule name to gain immediate access to various schedule related functions. Only the functions that are available for the schedule will be displayed. For instance, you cannot delete or turn off the Primary Schedule so these options are not available for the Primary Schedule. You can also double click on a schedule to invoke the Schedule Wizard for that schedule.

Below is an image of the schedule view. It displays columns of information for each schedule as defined below.

Schedule Name	On	List File	Type	Days	Times	Offsite...	Location	Backup Type
Primary Schedule	Yes	dinKum_Backup.mnf	Monthly	LastDay	00:00	OFFSITE	JSmith...	FULL/CHANGED
MySchedule	Yes	dinKum_Backup.mnf	Weekly	Su,Mo,Tu,We...	22:16	OFFSITE	JSmith...	FULL
JS Schedule	Yes	dinKum_Backup.mnf	One Day	09/05/11	Every 12 h...	OFFSITE	JSmith...	FULL

Schedule Name – is the name you gave when the schedule was created.

On – determines if the schedule is turned on (it will run) or off (it won't run).

List File – the file that contains the list of files to be backed up by the schedule.

Type – the schedule type can be 'Un-scheduled' (manual), 'Once', 'Weekly' or 'Monthly'.

Days – the days of week or month depending on the schedule type.

Times – the time of day or the hourly backup interval displayed as 'Every X hours'.

Offsite/Local – the storage location is either 'LOCAL' or 'OFFSITE'.

Location – the offsite login name, server and port, or the local storage location.

Backup Type – the backup type as 'FULL', 'FULL/CHANGED' or 'CHANGED' determines the criteria to backup individual files.

The following chart explains which settings are defined global to all schedules or can be defined separately per schedule. In the Backup Manager, changing the settings applies to the selected schedule when in the Schedule View otherwise, changing settings applies to the schedule in the drop down list of the toolbar.

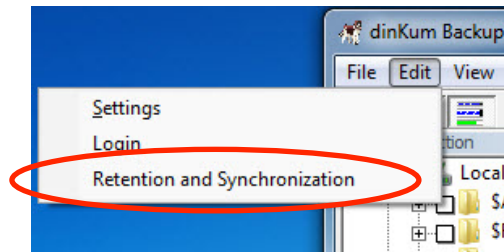
Settings	All Schedules	Per Schedule
Backup Manager View		
LOCAL STORAGE (Can be same for different schedules)		X
OFFSITE STORAGE (Can be same for different schedules)		X
Backup Location (Can be either local or shared)		X
Manifest File (Separate or shared between schedules)		X
Backup Manager – Edit Settings		
Exclude Files		
Exclude file list	X	
Notifications		
Receive Emails	X	
Disable automatic startup of Status Tray	X	
Performance		
Packer Priority		X
Transmit Priority		X
Log Files		
Maximum number of latest logs		X
Location to store logs		X
Local Storage		
Configure Local Backup		X
Storage Location		X
Working Location		X
Remember Password		X
Offsite Location		
Account Name/Unit		X
Remember Password		X
Server/Port		X
Archives		
Temporary Archive Location	X	
Maximum Archive Size		X
Backup Type		
Backup Type (Full/Changed, Full, etc.)		X
Track Full Backup files across accounts (or each account)		X
Leave backed up files as changed		X
Volume Shadow Copy options		X
Restore		
Download Location	X	
Restore Unpack Location	X	
Schedule		
Schedule Type (Unscheduled, Once, Weekly, Monthly)		X
Day Selection		X
Time Selection		X
Shutdown computer after backup		X

11. Data Management

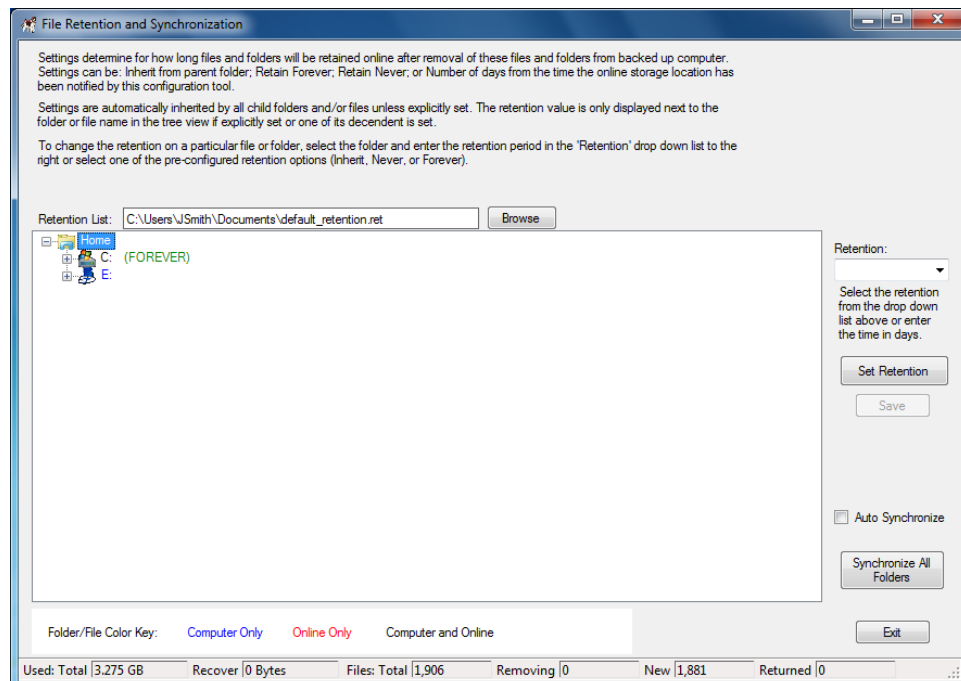
11.1. Overview

Data structures on computers change on a daily basis due to files being moved between directories or files being removed/deleted. Therefore, synchronizing the online data with the changing data structure of the computer is necessary to reflect the changes. This can be accomplished either manually or automatically with the 'File Retention and Synchronization' tool. The 'Retention and Synchronization' item from the 'Edit' menu allows for defining the type and length of file retention for data for online storage. The default setting for the retention length is infinite (Retain Forever) but this can be changed for each folder if needed.

11.2. Data Retention



After selection of the 'Retention and Synchronization' menu item the following screen appears. By clicking on the 'plus (+)' sign next to the drive letter the contents of the drives will be expanded and displayed.



The status bar at the bottom of the retention and synchronization application shows:

Used: Total - Total amount of storage used from selected folder (includes up to 3 file versions)

Recover - Amount of storage that would be recovered from selected folder (includes up to 3 file versions)

Files: Total - Total number of unique files from selected folder (counts multiple file versions as one)

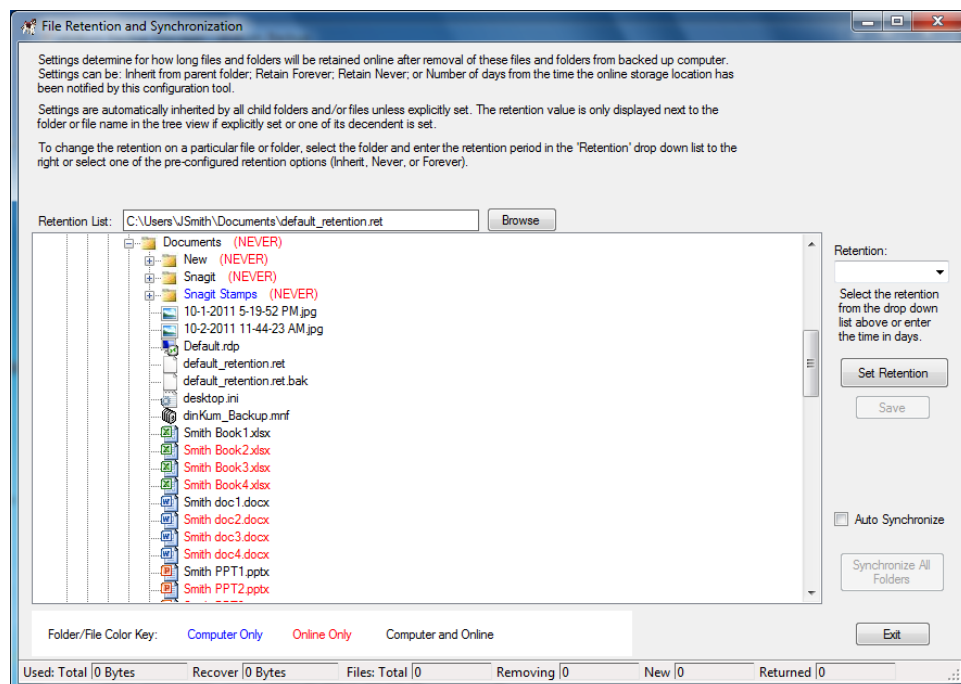
Removing - Number of files that will be removed from selected folder (counts multiple file versions as one)

New - New number of files missing on local system when compared to online location (counts multiple file versions as one)

Returned - Number of previously missing files that returned to the local system (counts multiple file versions as one). Online location will be notified that file is no longer missing on local system and therefore does not need to be removed from online location, either.

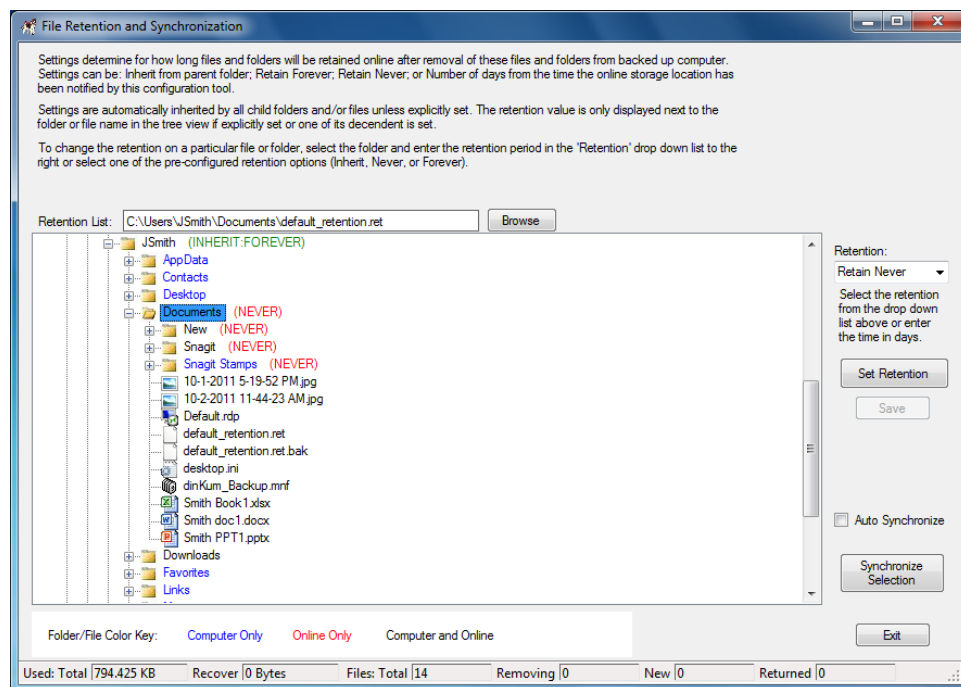
11.3. Data Synchronization

The colors of the files and folders relate to the location of the data. When a folder or file is blue then they are only located on the local computer and **not** online. When the color is red then the files and folders are only located online. Files and folders are shown in black when they are stored locally and online.



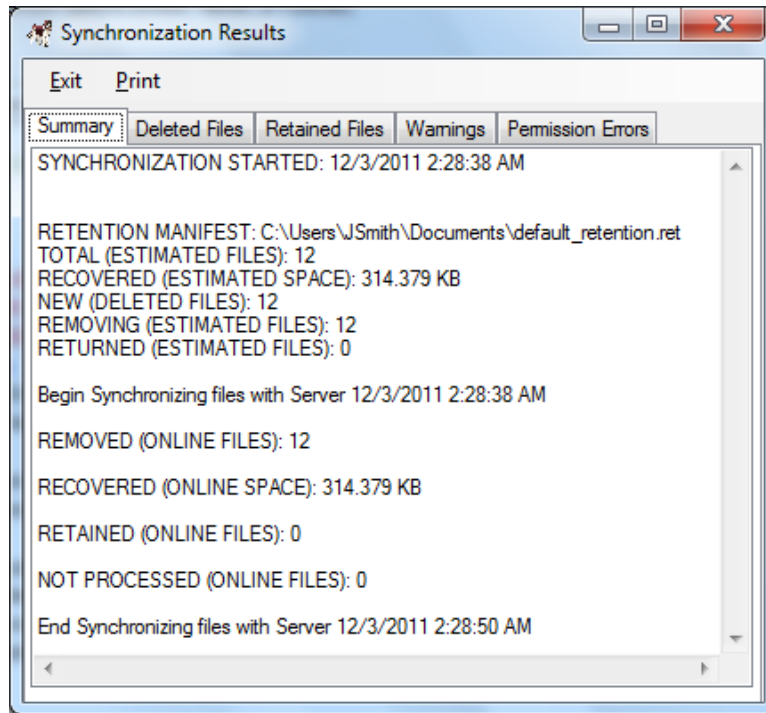
The retention settings are saved in a file, the 'Retention List' and that list can be selected through the 'Browse' button above the file and folder view window. On the right hand side of the window the retention period can be specified. In the above example it is set to 'Retain Never' for the selected folder. The other options are 'Inherit' and 'Forever' in the drop-down list or a number can be entered directly into that box. This number reflects the number of days for which the data will be retained online before it will be deleted. For example, a file on your local system has been deleted and then a certain number of days later it will be deleted from the online location, too. This only makes sense when the file is no longer needed. The backup primarily serves unintentional deletion of files and folders so that these can be restored. Therefore, the default setting for the retention period is 'Forever' which should only be changed when the affected files and folders will not need restoring at a later time.

These setting will be the same for all subfolders when for those 'Inherit' is selected which is the default setting. Click on 'Set Retention' to activate your selection. When 'Auto Synchronize' is checked the dinKum backup software will automatically initiate the synchronization for the selected folder and its subfolders. By clicking on 'Synchronize All Folders' a manual synchronization can be initiated.



Each synchronization process creates a log file with a report on what files and folders were synchronized as shown in the example below.

The synchronization results window has five tabs that provide a summary, the list of files that have been deleted from the offsite storage location, the files that were retained and if there were any warnings or permission errors.



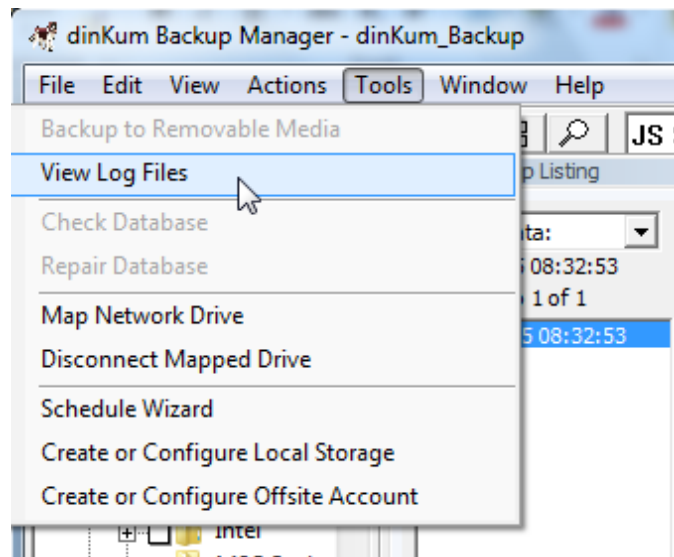
Log-file report before synchronization:

Same information as provided by the status bar in the File Retention and Synchronization window.

Log-file report after synchronization:

REMOVED (ONLINE FILES) - Number of files that were removed from online storage
 RECOVERED (ONLINE SPACE)- Amount of online space recovered
 RETAINED (ONLINE FILES)- Number of files that are marked for removal from online storage location at a later time based on retention settings
 NOT PROCESSED (ONLINE FILES)- Number of files that couldn't be processed

The Retention/Synchronization Results can also be viewed at a later time in the Log Viewer. This is located in the "Tools" menu of the Backup Manager.



12. DinKumd Service Installation Instructions for Linux

12.1. Overview

The DinKumd Service (DDS) is provided for Linux users that are backing up or restoring files using the Windows dinKum Backup Software (Client) with SAMBA shares. SAMBA does not preserve Linux group, ownership or file permissions when accessed from Microsoft Windows Systems. The DDS provides a method for the Client to get the Linux file group, ownership, and file permissions during backup operations and will set them back during restores.

Users that strictly use SAMBA shares as file server for Windows applications will not require this service.

12.2. Obtaining DDS

The DDS can be found in the installed GPmicro program files folder on Microsoft Windows Systems in a file called “dinkumd.tar”. Typically this can be found in “C:\Program Files\GPMicro\dinKum Backup” on 32 bit versions of windows or “C:\Program Files (x86)\GPMicro\dinKum Backup” on 64 bit versions of Windows. On some systems, the program files folder may be on a drive other than ‘C:’.

First copy the “dinkumd.tar” file to your Linux System. The easiest way to do this is to map a SAMBA share, make a folder called “dinKum” on the share and copy the file from the Client installation folder to the “dinKum” folder on the share. Then logon to Linux as the “root” user and change your shell working directory to the “dinKum” folder on the Linux system to perform the installation. See the ‘Configuring SAMBA Shares’ section below for help on this topic.

NOTE: While configuring the SAMBA share on Linux, be sure to run the ‘smbpasswd’ command to create the Windows mapping logon credentials for the share.

For example, to set the mapping user credentials for user ‘bob’, as the “root” user on the Linux server, type the following command from the shell prompt:

```
smbpasswd bob
```

You will be prompted for the password:

```
New SMB password: _
```

The password will not show up (echo) as you type for security reasons.

12.3. Preparation before Installation

Before installing the DDS, you need to gather the following information about your Linux system:

1. Identify an unused TCP Port number for the DDS (2020 is used by default)
2. Identify all of the SAMBA share names and their complete paths from root “/”.

The DDS accepts TCP connections from the Client that is aware of SAMBA shares on Linux servers running the DDS. The DDS must be configured to listen and accept connections on specific TCP port numbers. The default port number is 2020 but any port in the range 2020 through 2024 is preferred. The Client will automatically detect servers using DDS if they use a port in this range; otherwise the Client will have to be configured manually to match the port used by the DDS outside this range. If the Client does not auto detect or does know to use a port outside the default range, the Linux file permissions will not be backed up and consequently, not restored when the files are restored. See ‘Configuring Backup Software’ below to learn how to manually configure a share to use the DDS on SAMBA shares.

If you already have another Linux service using the default port “2020”, you must change the DDS listening port during installation. The port number is stored in the DDS “/etc/dinkum/dinkum.cfg” configuration file. You can also change the port after installation by editing the configuration file manually and restarting the DDS. See ‘Modifying the DDS Configuration File’ section below to learn how to do this.

To determine which ports are currently in use on Linux, you can use the following shell command line:

```
netstat -l -n | grep -i tcp | more
```

The fourth column contains the interface and port number that is in use. The last number of the value in that column, following the last colon (:) character, is the TCP port number. For example, in the sample output shown below, the ports in use are 2020, 80, 22, 631, 139, 5900, 22, 631 and 445 taken from column 4. You would choose any other port than those. It is recommended that you pick a port higher than 1024.

Sample output:

```
# netstat -l -n | grep tcp | more
tcp        0      0 0.0.0.0:2020        0.0.0.0:*          LISTEN
tcp        0      0 0.0.0.0:80          0.0.0.0:*          LISTEN
tcp        0      0 0.0.0.0:22          0.0.0.0:*          LISTEN
tcp        0      0 127.0.0.1:631       0.0.0.0:*          LISTEN
tcp6       0      0 :::139              :::*               LISTEN
tcp6       0      0 :::5900              :::*               LISTEN
tcp6       0      0 :::22               :::*               LISTEN
tcp6       0      0 :::1:631            :::*               LISTEN
tcp6       0      0 :::445              :::*               LISTEN
```

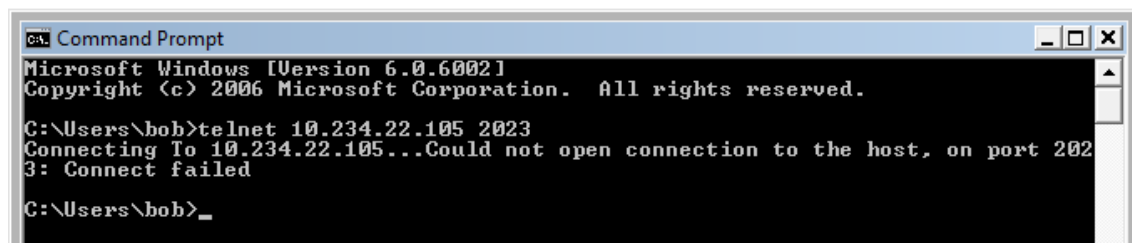
If you do not see any of the ports 2020 through 2024 displayed in the output, then they are not in use and should be used by you. Choose the default if available, otherwise use 2021 through 2024. If none of those are available, you will have to choose an alternate port number not in use. If you choose any port other than 2020, you will have to configure it during installation.

Also, you should make sure that the TCP port is not being blocked by a Linux firewall. If it is, you need to open the port in the firewall. Examine your Linux networking firewall configuration to determine this. After you install DDS and it is running, you want to find out if the firewall is blocking this port by using the Linux ‘telnet’ command. From a system other than the Linux server at a shell (on Linux) or DOS command (on Windows), type in the following command and see if the connection times out. If it times out, the port is probably blocked. If it connects and the screen clears, the port is not blocked. If the connect is successful, you can type ‘Ctrl-]’ (Control Key + ‘]’ key) followed by ‘c’ key to get the ‘telnet’ prompt, and then type the ‘quit’ command. Alternately, you can wait for the connection to time out or just close the window.

telnet <server-name or IP-address> <Space> <port#>

The <server-name> is the server’s network name or <IP address> is the server’s IP address and <port#> is the port number chosen for DDS. Between the server name and the port number must be a space character.

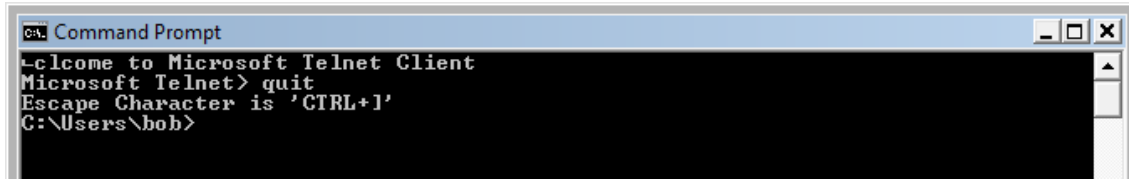
In the example below, ‘telnet’ is being used to try to connect to port 2023 on server 10.234.22.105. In this example, ‘telnet’ was unable to connect based on the output message from ‘telnet’.



```

C:\Users\bob>telnet 10.234.22.105 2023
Connecting To 10.234.22.105...Could not open connection to the host, on port 202
3: Connect failed
C:\Users\bob>_
  
```

The next example shows a successful connection by ‘telnet’ to port 2020 on server 10.234.22.105.



Once you configure the SAMBA shares, copy the “dinkumd.tar” file to the share, and choose a TCP port number for the DDS, you are ready to perform the installation.

12.4. Installing the DDS on Linux

From the Linux system, extract the files from the dinkumd.tar file into the “dinKum” folder (assume $\{\text{Share Path}\}$ is the path of the SAMBA share):

```
cd  $\{\text{Shared Path}\}$  / dinKum
tar xvf dinkumd.tar
```

For example, if you are sharing the folder “/home/usr1/Documents”, enter the following commands as user “root”:

```
cd / home / usr1 / Documents / dinKum
tar xvf dinkumd.tar
```

The following files will be extracted:

```
install_dinkumd.sh – DDS install shell script
dinkumd – DDS application
initdinkumd – Startup script
dinkum.cfg – Configuration file for DDS
```

From the $\{\text{Shared Path}\}$ / dinKum folder described above, run the installer as follows as user “root”:

```
cd  $\{\text{Shared Path}\}$  / dinKum
sh install_dinkumd.sh
```

The install script will perform the following functions and this is provided as information for troubleshooting by advanced Linux users only. No user action is required until step 6 is reached, where you will be required to modify the configuration file. This requires a minimal amount of knowledge of the “vi” editor. If you need help with “vi”, see ‘Using the VI Editor’ section below.

1. Stops the DDS if previously installed and running.
2. Copies the DDS “dinkumd” to the “/usr/bin” directory.

3. Copies the DDS startup file “inidinkumd” to the “/etc/init.d” directory and renames it to “dinkumd”.
4. Links the correct run level startup and shutdown scripts in “/etc/rc1.d” and “/etc/rc2.d” directories to the “/etc/init.d/dinkumd” script.
5. Copies the “dinkum.cfg” file to the “/etc/dinkum” folder where the DDS expects to find it.
6. Runs the “vi” editor on the “/etc/dinkum.cfg” file so you can edit the correct TCP port number and add the SAMBA share paths.
7. Starts up the DDS.
8. Completes the installation and returns to the shell prompt.

The installation process will invoke the “vi” editor on the “/etc/dinkum.cfg” file so that you can configure the DDS for your system. You will be required to set the correct TCP port number and enter a line for each SAMBA share you wish to obtain Linux permissions for. See ‘Modifying the DDS Configuration File’ section below to learn how to do this.

A sample configuration file using TCP port 2020 with one SAMBA share called “Usr1Documents” for the Linux directory “/home/usr1/Documents” would appear as follows:

```
PORT=2020
Usr1Documents=/home/usr1/Documents
```

When you are finished making changes to the configuration file in step 6 you should exit the editor. This will cause the installer to continue and complete the installation. After installation the DDS will automatically start up and you will be ready to perform backups.

The DDS will automatically start and stop when the system is booted or shutdown, respectively.

If the service is running, you can stop it with the following shell command as the user “root”:

```
sh /etc/init.d/dinkum stop
```

You can start the service, if stopped, with the following shell command as the user “root”:

```
sh /etc/init.d/dinkum start
```

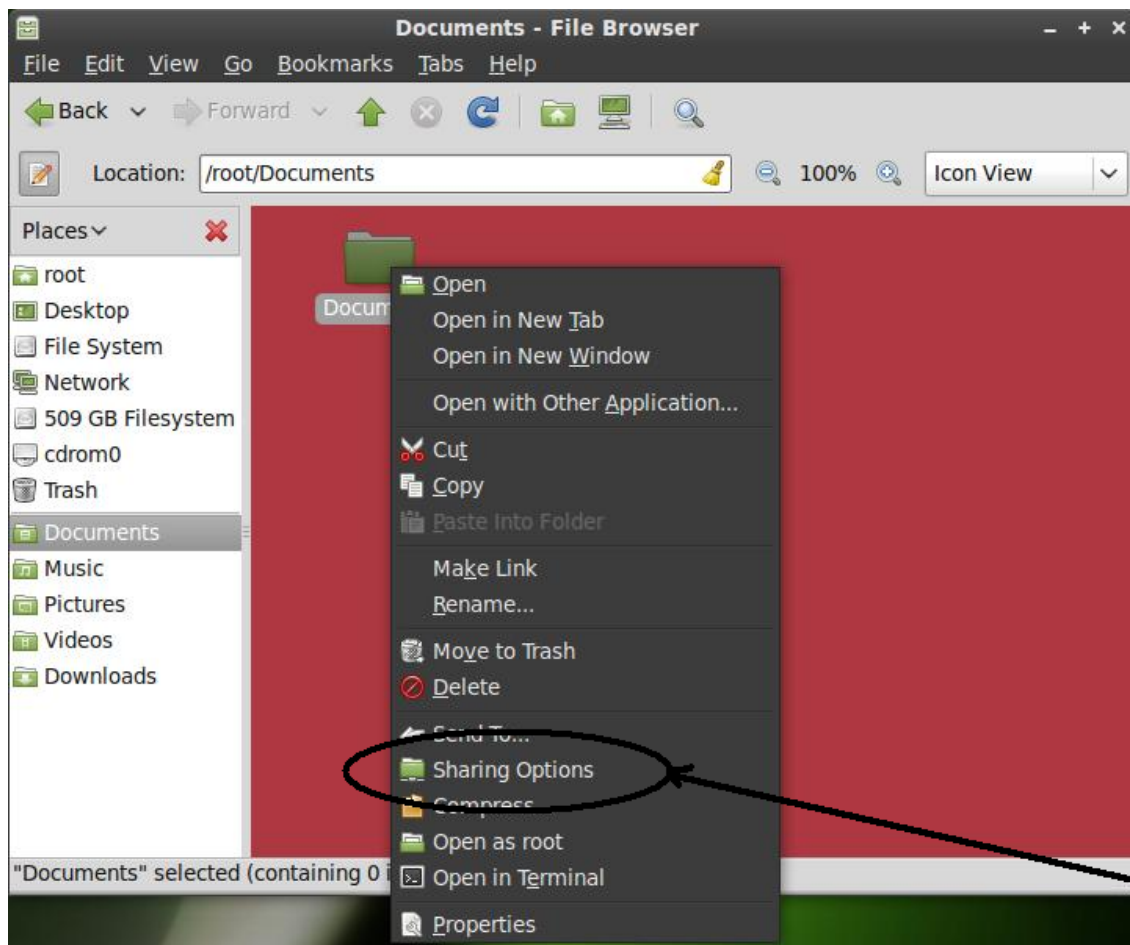
Or you can restart the service, if running, with the following shell command as the user “root”:

```
sh /etc/init.d/dinkum restart
```

12.5. Configuring SAMBA Shares

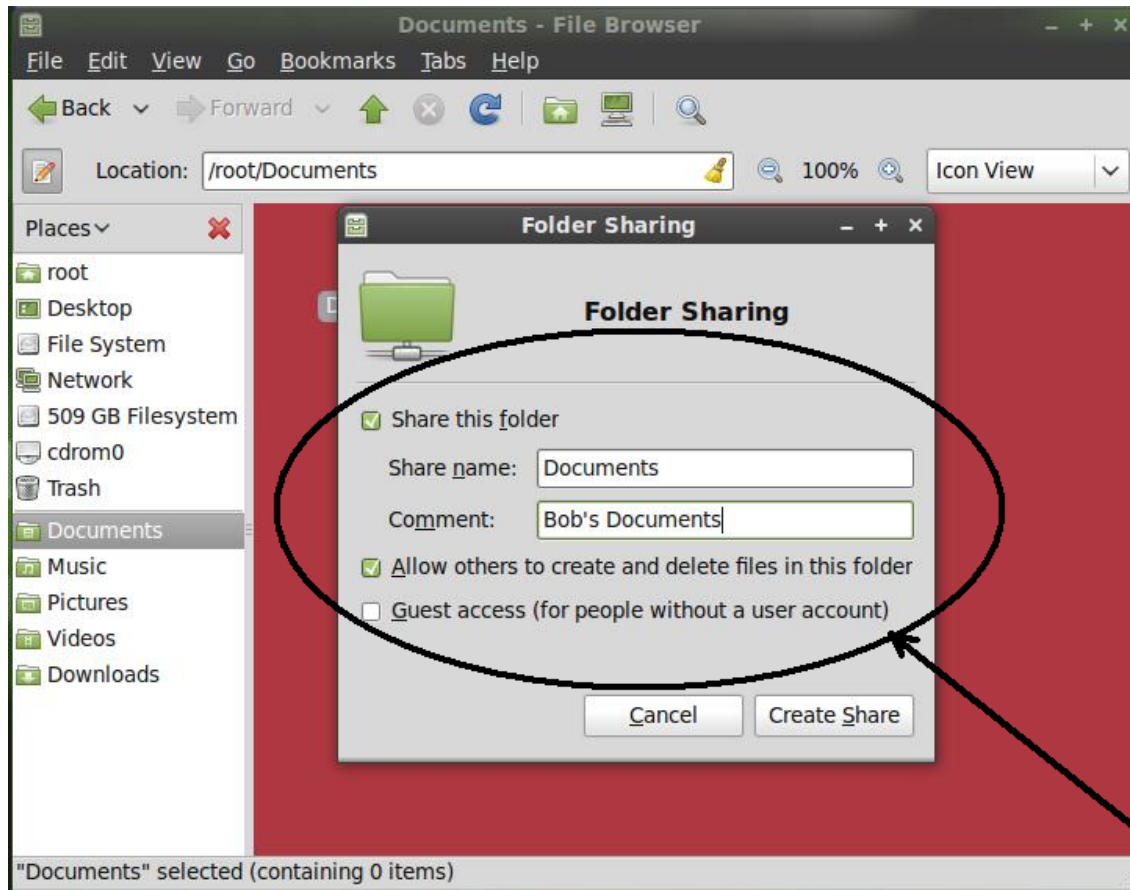
Since there are many versions of Linux with different GUI desktops available, this document cannot describe all the various ways a SAMBA share can be configured. Therefore it is best to consult the documentation on your version of Linux. This example uses both the GUI desktop to configure a share and then describes how to set the share user credentials so that it can be mapped from Windows using the 'smbpasswd' command from the shell prompt.

Using the Shell Browser, locate the folder you want to share and right click to bring up the context menu. Then click on the 'Sharing Options' option from the menu.



Click on 'Sharing Options' to share the folder.

This will bring up the Folder Sharing dialog as shown below. Select the 'Share this folder' option and enter the share name and a comment. Be sure to select 'Allow others to create and delete files in this folder' option. (This is required by the backup Client software so that it can record the backed up files, which it records on the share.) When you're sure the settings are correct, click on the 'Create Share' button and the share will be available for mapping.



Configure the 'Folder Sharing' options and click the 'Create Share' button.

NOTE: Be sure to run the 'smbpasswd' command to create the Windows mapping logon credentials for the share.

For example, to set the mapping user credentials for user 'bob', as the "root" user on the Linux server, type the following command from the shell prompt:

```
smbpasswd bob
```

You will be prompt for the password:

```
New SMB password: _
```

The password will not show up (echo) as you type for security reasons.

12.6. Using the VI Editor

This is not intended to be a complete tutorial of the “vi” editor but merely shows the most basic features and commands in order to use the editor to modify the DDS configuration file.

To modify the configuration file with the “vi” editor, enter the following command:

```
vi /etc/dinkum/dinkum.cfg
```

The editor will display the first page of the file on the screen and enter visual command mode. In this mode, keys pressed are treated as commands and do not become part of the document. The “vi” editor has three basic modes as explained below: visual command mode; insert mode; and command line mode.

In visual command mode, keys pressed are treated as commands, such as cursor movement, character insert or delete, or line insert or delete, etc. Keys that cause “vi” to enter insert or edit mode, will place the cursor in the document location on the screen corresponding to the command type and then switch “vi” into the corresponding mode. To return back to visual command mode, press the Escape key.

In line insert or edit mode, characters typed on the keyboard are entered into the document text on the screen and become part of the document. While in insert mode, you can use the arrow keys to position the cursor or use the backspace or delete keys to delete characters.

To enter command line mode, while in visual command mode, press the colon “:” key. This will clear the last line of the display and show the “:” prompt at the beginning of the line and then position the cursor after the prompt on the last line. There you can enter commands to perform specific “vi” command line functions.

Visual Command Mode:

Arrow Keys	Move the cursor up, down, left, or right corresponding to the arrow keys.
‘w’-key	Moves the cursor to the beginning of the next word.
‘e’-key	Moves the cursor to the end of the word containing the cursor or the end next word if already at the end of a word.
‘b’-key	Moves the cursor to the beginning of the word containing the cursor or the previous word if already at the beginning of a word.
‘a’-key	Enters insert mode after the character in which the cursor is positioned.
‘i’-key	Enters insert mode in front of the character in which the cursor is positioned.
‘o’-key	Creates a new line below the line of the cursor and enters insert mode on that line.
‘O’-key	Creates a new line above the line of the cursor and enters insert mode on that line.
‘x’-key	Deletes the character where the cursor is positioned on.
Back Space	Deletes the character before the cursor position.

'c'-key and then 'x'-key	Deletes the character at the cursor position and enters insert mode.
'c'-key and then 'w'-key	Deletes the word at the cursor position and enters insert mode.
'd'-key and then 'd'-key	Deletes the line containing the cursor.
'd'-key and then 'w'-key	Deletes a word containing the cursor.
'Z'-key and then 'Z'-key	Saves the document and exits the editor.
'y'-key and then 'y'-key	Copies the line contents into an internal 'yank' buffer.
'p'-key	Inserts a new line under the cursor with the contents of the internal 'yank' buffer.
'P'-key	Inserts a new line above the cursor with the contents of the internal 'yank' buffer.

Command Line Mode:

:w	Write back changes to the original file.
:w <file>	Write back changes to the file specified on command line.
:r <file>	Read file specified on command line into document at cursor location.
:q	Quit or exit the editor.
:wq	Write the file and quit the editor.
:w!	Force writing the file back.
:wq!	Force writing file back and quit editor.

12.7. Modifying the dinKumd Configuration File

Use a text editor such as “vi” to modify the configuration file “/etc/dinkum/dinkum.cfg”. Locate and modify the line that defines the TCP port number used by the DDS. Change the number from 2020 to the port you plan to use. Locate the line in the file after a new install that appears as:

```
PORT=2020
```

For example, to change the TCP port number to 2021, after changing the line it reads:

```
PORT=2021
```

With the “vi” editor:

1. Run the command: `vi /etc/dinkum/dinkum.cfg`
2. Use the up or down arrow key to go to line containing “PORT=2020” and then left or right arrow keys to move to the beginning of the word “2020”.
3. Then type 'c' and then 'w' keys to delete the word “2020” and enter Insert Mode.
4. Type “2021” and press Escape key to return to visual command mode.
5. Type 'Z' and then 'Z' again to write the changes and exit.

In the file, you can add, change, or remove share names by adding and removing lines of the form:

{Share Name}={Rooted Path of Shared Folder}

In the file, the text “{Share Name}” represents the SAMBA share name and “{Rooted Path of Shared Folder}” represents the complete path from the root “/” of the folder being shared by SAMBA.

For example:

If the directory “/home/usr1/Documents” is being shared as “Usr1Documents” the line would read:

Usr1Documents=/home/usr1/Documents

With the “vi” editor:

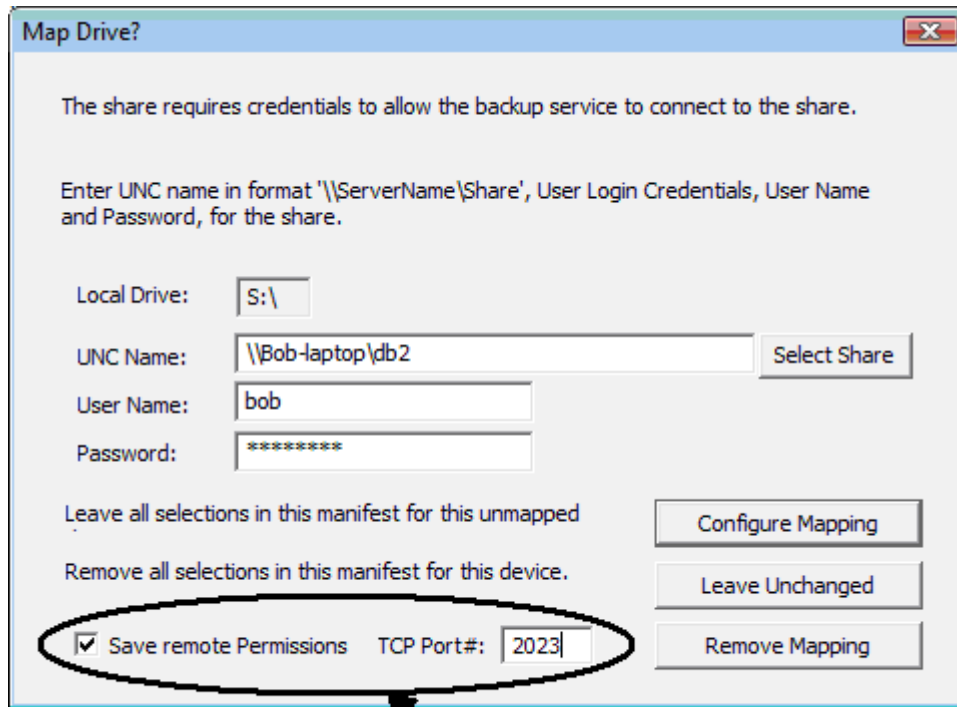
1. Run the command: `vi /etc/dinkum/dinkum.cfg`
2. Use the up or down arrow key to go to line containing “PORT=2020”.
3. Type ‘o’ to enter insert line mode on a new line under the line containing “PORT=2020”.
4. Type in “Usr1Documents=/home/usr1/Documents” and then press Escape to return to visual mode.
5. Type ‘Z’ and then ‘Z’ again to write the changes and exit.

After saving the changes to the configuration file, the service must be restarted for your changes to take affect.

12.8. Configuring Backup Software

The Client (Windows dinKum Backup Software) can obtain Linux file permissions from the DDS, if installed on the Linux server hosting the SAMBA share. When choosing files to back up from a mapped drive while in the dinKum Backup Manager, the dinKum Backup Manager will require you to enter the login credentials it will use later during backups. The following dialog box will be displayed and during this process, it will automatically try to detect a DDS on the server hosting the share. If the service was configured to listen on a port between 2020 and 2024, the server will automatically be detected.

If the server detects the service, the ‘Save remote Permissions’ checkbox will automatically be checked, and the port number supplied in the dialog box is shown below. If the DDS is configured at an alternative port, it will not be detected and you will have to manually configure the port number for the Windows Client. You should check the checkbox and enter the correct TCP port number so the backup software knows how to connect to the Linux server in order to obtain the permissions. If the backup software cannot connect then the Linux permissions will not be backed up.



The share requires credentials to allow the backup service to connect to the share.

Enter UNC name in format '\\ServerName\Share', User Login Credentials, User Name and Password, for the share.

Local Drive: S:\

UNC Name: \\Bob-laptop\db2 Select Share

User Name: bob

Password: *****

Leave all selections in this manifest for this unmapped

Remove all selections in this manifest for this device.

☒ Save remote Permissions TCP Port#: 2023

Configure Mapping Leave Unchanged Remove Mapping

The dialog box is titled "Map Drive?". It contains instructions and input fields for mapping a network drive. The "Local Drive" is set to "S:\". The "UNC Name" is "\\Bob-laptop\db2" with a "Select Share" button. The "User Name" is "bob" and the "Password" is masked with asterisks. There are three radio buttons for manifest settings: "Leave all selections in this manifest for this unmapped" (selected), "Remove all selections in this manifest for this device.", and "Save remote Permissions" (checked). The "TCP Port#" is set to "2023". On the right, there are three buttons: "Configure Mapping", "Leave Unchanged", and "Remove Mapping". A black oval highlights the "Save remote Permissions" checkbox and the "TCP Port#" field, with an arrow pointing from the text "Settings to" to the oval.

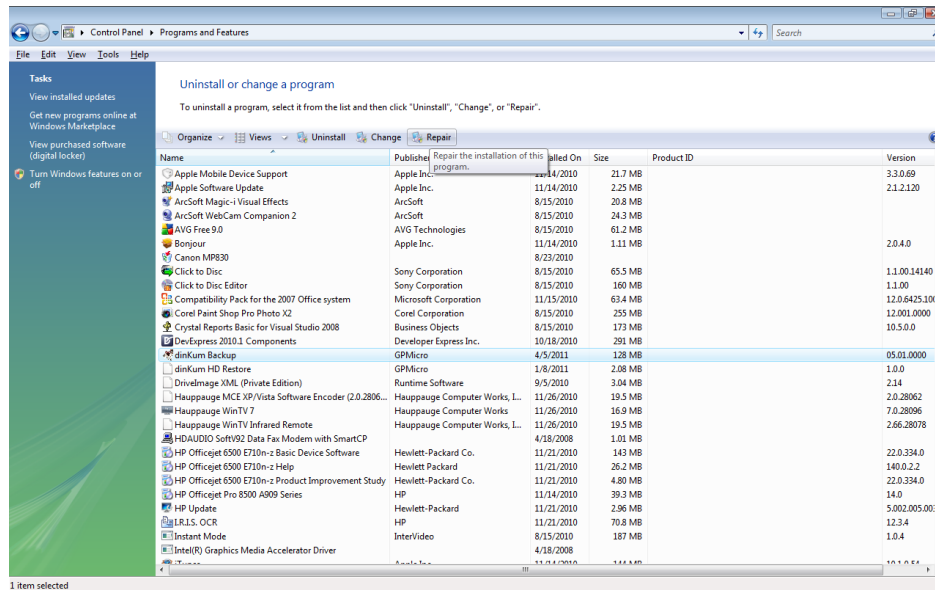
Settings to

configure TCP Port to obtain remote permissions from Linux

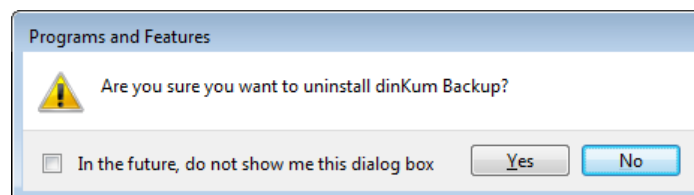
During restore to a Linux SAMBA share, the dinKum Restore program will again automatically attempt to detect the DDS running on Linux. If it cannot detect the DDS, it will not restore the correct Linux permissions during file restore.

13. Uninstalling the dinKum Backup Software

The dinKum Backup software can be uninstalled through the Control Panel by selecting 'dinKum Backup' from the list and choosing 'Uninstall' from the menu.



The following dialog boxes might appear asking for confirmation of the uninstall request. If you are certain that you wish to proceed then select 'Yes' in the dialog box below.



When you only want to uninstall the software but you want to keep user specific settings then select 'Yes' below. When you select 'No' then all program and user data associated with dinKum Backup will be removed from your system.

