Active@ Parition Manager

USER MANUAL

ver. 23

Updated: 03 Feb 2023

Contents

Legal Statement

Partition Manager

Active@ Partition Manager is an advanced disk editing and formatting tool.

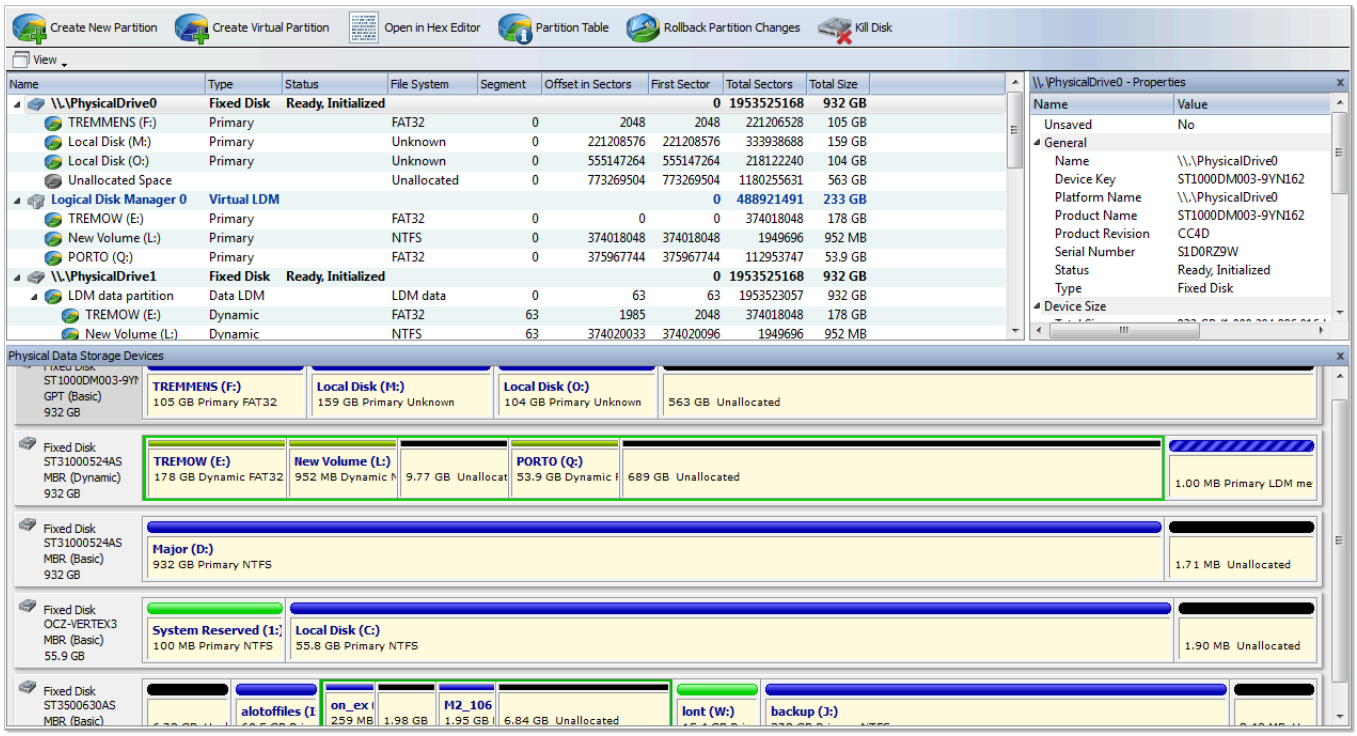
Partition Manager is an advanced disk utility that allows you to perform disk partitioning tasks, such as creating partitions and volumes, formatting them, and assigning drive letters. Initialize raw disk, edit partition tables and more.

Most of these changes to disk partitioning are recorded in dedicated backup files thus at any time these changes could be rollback at certain point. See Rollback partition changes on page 11 for more information.

General system requirements

- Windows 11, Windows 10, Windows 8, Windows 7, Windows Vista, Windows XP
- Windows Servers 2003, 2008, 2012, 2016, 2019, 2022
- WinPE recovery environment
- Administrators privileges required to install and run software
- Intel/AMD processor
- 100 MB available on a disk
- 1GB MB of RAM
- Internet Browser
- Mouse or other pointing device

The main features of Partition Manager are:



Active@ Partition Manager is a submodule of **Active @ UNDELETE** - advanced data recovery toolbox. For more info just visit Active@ UNDELETE web site.

To open Partition Manager click **Tools** > **Partition Manager** in main application menu or use shortcut **Ctrl +M** at any time when running Active@ UNDELETE.

Initialize new disk (physical device)

Physical Disks Initialization

To make disk accessible for application it needs to be initialized first by one of the following partition style:

- Master Boot Record (MBR);
- GUID Partition Table

⚠ **DANGER:** Do not initialize disk if you are about to recover lost data from it! Use Scan for deleted partitions and files by their signatures to retrieve your files fist.

To initialize physical disk proceed as follows:

1. Select disk to initialize

   In Partition Manager select not-initialized Disk (Physical Disk).

2. Open the Initialize Disk dialog

   - From the Partition Manager toolbar click **Initialize** button or use command **Actions** > **Initialize** ... from main menu;
   - Right-click the selected item and click **Initialize...** command from the context menu.

   Confirm disk selection and other options in opened dialog.

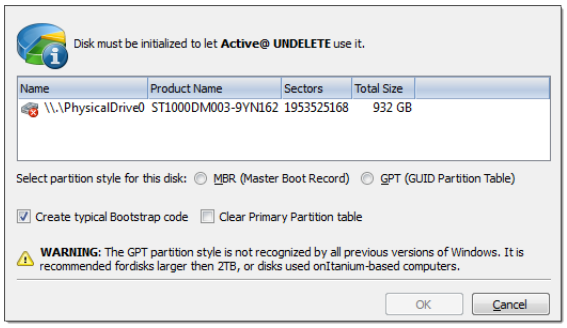


Figure 1: Initialize Disk dialog

Dialog options

Partition style

Select either *MBR* (Master Boot Record) or *GPT* (GUID Partition Table) partition style.

Note: GPT partition style is not supported by older versions of Windows. It is recommended for disks larger then 2TB. For all other purposes we recommend to use MBR partition style

Create typical bootstrap code

Default generic bootstrap code will be written if this option is on.

Clear primary partition table

Primary partition table records will be cleared.

Warning: It is highly recommended to not clear primary partition table in case of restoring deleted or damaged disk partitioning.

3. Click **OK** to complete disk initialization

After disk initialization it should be visible and accessible in Partition Manager for other actions, such as Create partition on page 5 and more.

Related tasks

Convert MBR and GPT disks

Create partition

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

To create new partition (*logical drive or volume*):

1. Select partition location

   In Partition Manager select a disk (*physical device*) or *unallocated space* node.
2. Open the **Create New Partition** dialog
   - From the toolbar click **Create New Partition** button or use command **Actions** > **Create New Partition...** from main menu.
   - Right-click the selected item and click **Create New Partition** command from the context menu.

3. Adjust dialog options

Use sliders to specify partition boundaries - offset and size. Mouse click on unallocated space will select it to utilize all space available.

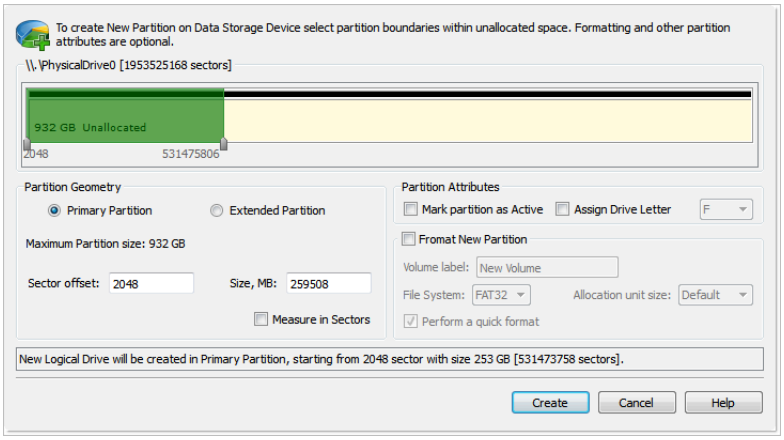


Figure 2: Create Partition dialog

Partition Geometry

Primary or Extended

Partition can be created as *Primary* partition (of number of available Primary partitions are not exceeded) or as *Extended* partition.

Sector Offset

First sector of created partition. It can be set exact by numerical value entered in text box or by moving left slider in **Device View** control;

Partition Size

Partition size can be set in megabytes or in sectors, depending on state of **Measure in Sectors** check box;

Partition Geometry

Mark Partition as Active

Newly created partition will be set as *Active Partition*;

Assign Drive letter

For Primary Partition or Logical Drive on extended partition drive letter can be assigned from the list of available in the system drive letters;

Format Partition [optional]

Volume label

Text label of partition (disk). This field can be blank

File System

Select file one of the supported file systems: FAT, FAT 32 or NTFS.

Unit Allocation Size

Depending on selected file system and total partition (disk) size available allocated unit size may be different. Default value of unit size is recommended.

4. Click **Create** button to create new partition

After partition created, it should appear in Partition Manager available for other actions like formatting.

Related tasks

Format partition on page 9
Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Change partition attributes on page 8
Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Edit partition table on page 13
Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Change partition attributes

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

To change *logical drive* (*partition*) attributes:

1. Select volume

   In Partition Manager, select a *logical drive* (*partition*) node.
2. Open the Partition Attributes dialog
   - From the Partition Manager toolbar click **Change Attributes** button or use command **Actions** > **Change Attributes** from main menu;
   - Right-click the selected item and click **Change Attributes** from the context menu.

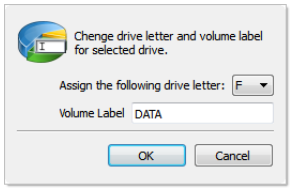


Figure 3: Create Partition dialog

   Select new drive letter from drop-down list of available drive letters and enter volume label if necessary.
3. Click **OK** to complete changes

After command is complete, volume item should appear in Partition Manager with new attributes.

Related tasks

Create partition on page 5
Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Format partition on page 9

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Format partition

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

To format *volume* (*partition*):

1. Select volume

   In Partition Manager select a *Logical Drive* (Partition) node.
2. Open the Format Partition dialog
   - From the toolbar click **Format** button or use command **Actions** > **Format...** from main menu.
   - Right-click the selected item and click **Format...** command from the context menu.
3. Adjust dialog options

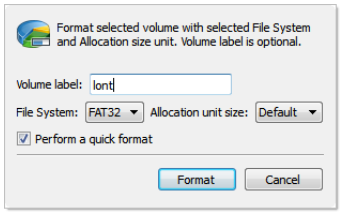


Figure 4: Format Partition dialog

Dialog options

Volume label

Text label of partition (disk). This field can be blank

File System

Select file one of the supported file systems: FAT, FAT 32 or NTFS.

Unit Allocation Size

Depending on selected file system and total partition (disk) size available allocated unit size may be different. **Default** value of unit size is recommended.

4. Click **Format** button to start formatting process

   ⚠ **DANGER:** All data on formatting Logical Drive (partition) will be lost! Backup all your valuable data before formatting.

When formatting is complete, volume item should appear in Partition Manager with new attributes and file system.

Related information

Partition manipulation

Rollback partition changes on page 11

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Resize a partition or logical drive (volume)

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Existing logical drive (volume) can be extended to use unallocated space available right after that partition or shrunk to utilize unused space. To resize *Logical Drive* (*Partition*):

1. In Partition Manager select a *Logical Drive* (volume) node.
2. Open the **Resize Volume** dialog:
   - From the toolbar click **Resize** button or use command **Actions** > **Resize...** from main menu.
   - Right-click the selected item and click **Resize...** command from the context menu.
3. Define new partition size

   Using Resize Volume dialog to define new partition (volume) size

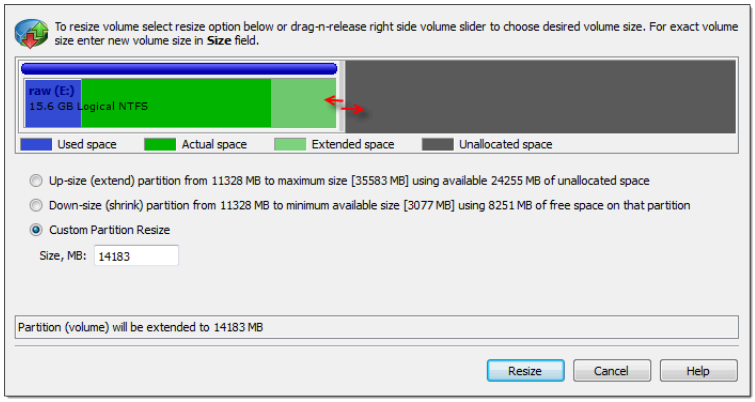


Figure 5: Resize Volume dialog

Dialog options

Resize options

Use radio buttons to expand to use maximum space available or shrink to last used cluster. Use **custom** option to define exact new size of partition.

Note: Use device control drug'n'release feature to set approximate partition size.

Warning: Logical drive (volume) resize is not part of Rollback feature - all changes are final and can not be undone.

4. Click **Resize** to complete changes

Related tasks

Change partition attributes on page 8

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Related information

Partition manipulation

Rollback partition changes

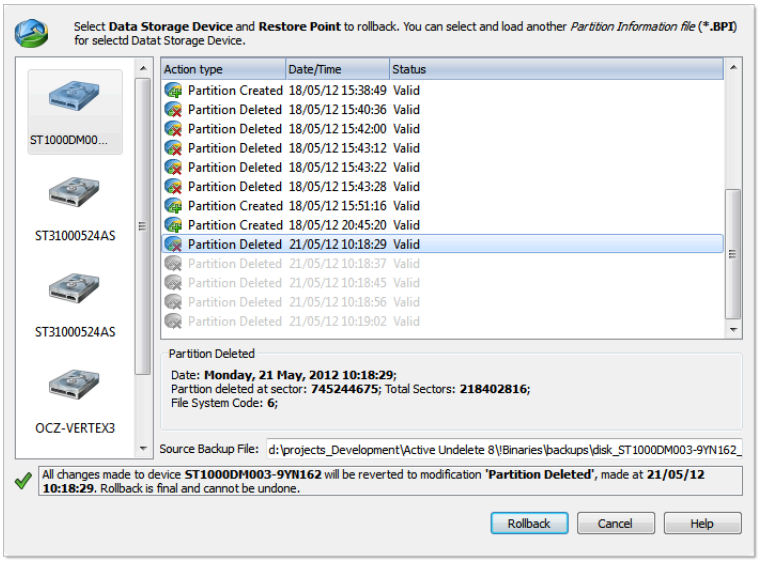
Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Some critical partition layout changes made to a physical device are backed up by default. Users can rollback these changes at any point by using the **Rollback Partition Changes** tool. These changes are:

- Initialize disk
- Create partition
- Format partition
- Delete partition

To open the Rollback Partition Changes dialog, do one of the following:

- From the Tools menu, choose the **Rollback Partition Changes** command.
- From the Tools tab in Command Bar, choose the Rollback Partition Changes command.
- For a selected physical device (disk) node use the context menu **Rollback Partition Changes** command.



To rollback changes made to a physical device, select a restore point in the chronologically ordered list and click the **Roll Back** button to complete the changes.

Related information

Partition manipulation

Disk editing

Advanced Editing

Edit boot sectors

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Primary Boot Sector and *Copy Boot Sector* (if applicable) can be edited and synchronized by individual fields. **Active@ UNDELETE** provide "suggested" boot sector with most appropriate values for reference.

To Edit (synchronize) boot sectors:

1. Select logical drive (partition)

   In Partition Manager or Recovery Explorer select a *logical drive* (*partition*) node.
2. Open the Edit Boot Sectors dialog

   - From the toolbar click **Edit Boot Records** button or use command **Actions** > **Edit Boot Records...** from main menu;
   - Right-click the selected item and click **Edit Boot Records...** command from the context menu.
3. Edit boot sectors

   Use radio buttons near the value fields to select and click **OK** button to confirm changes.

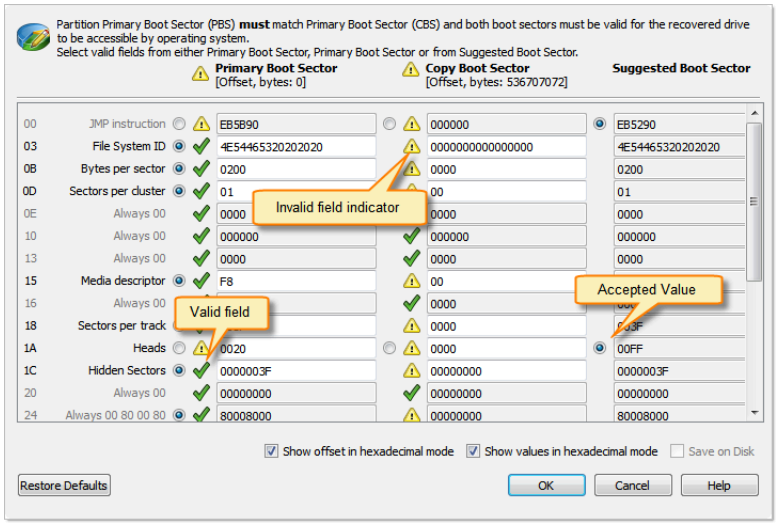


Figure 6: Synchronize Boot sectors dialog box

4. Click **OK** to complete changes

Related tasks

Edit partition table on page 13
Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Convert MBR and GPT disks

Edit partition table

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

You can edit *Disk system records* (MFT, Boot sector etc.) by using specially designed forms.

To edit *partition table*:

1. In Recovery Explorer select a *physical device*
2. In Partition Manager select a *physical device*.
3. Open the **Edit Partition Table** dialog:
   - Use command **Actions** > **Partition Table...** from main menu;
   - Right-click the selected item and click **Partition Table** command from the context menu.
4. Change desired fields to appropriate values

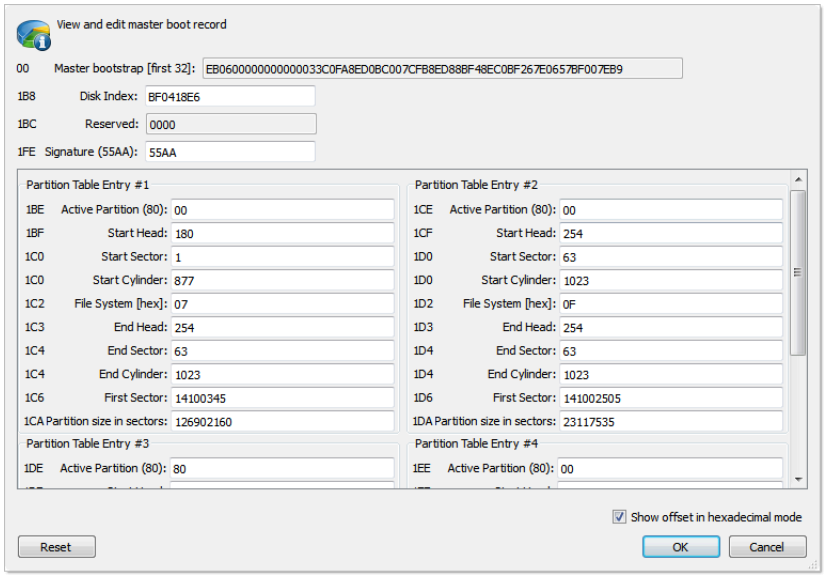


Figure 7: Edit Partition Table dialog

- To discard all changes and restore all values to fields in the dialog, click **Reset**.
- To save all changes made in the dialog, click **Save**.

Warning:

Saving incorrect values might render the partition useless. You may not undo changes that you make in this dialog.

5. Click **OK** to complete changes

Related tasks

Initialize new disk (physical device) on page 4
Physical Disks Initialization

Edit boot sectors on page 12

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

Hardware diagnostic file

Active@ UNDELETE is an advanced data recovery tool designed to recover data lost or deleted data, or even information from formatted hard disks.

If you want to contact our technical support staff for help with file recovery, a file that contains a summary of your local devices is helpful. **Active@ UNDELETE** allows you to create a summary listing file in XML format. This data format is "human-readable" and can help our technical support staff analyze your computer configuration or point out disk failures.

To create a hardware diagnostic file from the **File** menu, click **Save Hardware Info As...** command.

Note: To save time when contacting our technical support staff, we highly recommend that you provide us with a hardware diagnostic file.

Related information

Application log on page 14

Application log

This log view monitors each action taken by the application and displays messages, notifications and other service information. Use the messages in this screen to observe and further understand the flow of the recovery process.

To open and activate Application log view do one of the following:

- From main menu choose **View** > **Application Log** or
- Use **F8** keyboard shortcut at any time

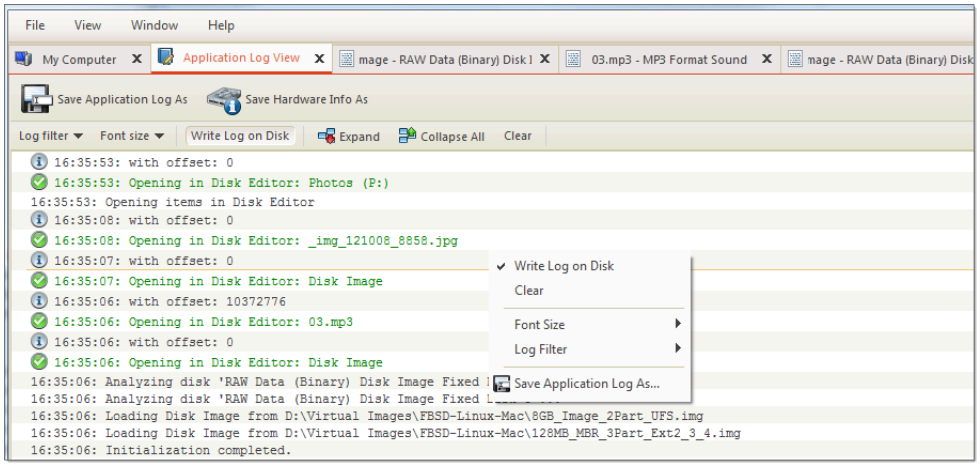


Figure 8: Application log view

To prepare a log file, turn on **Display Trace Events** and **Write Log on Disk** options in the Application preferences dialog.

It is best to save the log file to a physical disk that is different from the disk that holds the deleted data. By doing this, you reduce the risk of writing over the data that you are trying to recover.

View options

Log filter

Show or hide specific entry types in log view:

Log filter options

Show warning entries

Show non-critical warning entries

Show advanced entries

Show advanced entries related to application behaviour and data analysis

Show console entries

Duplicate console entries into main log view

Show system entries

Show entries related to operating system activity and state

Font size

Change size of mono-space font used in log view for better experience

Write log on Disk

Writes log entries in dedicated file on disk, located in application directory. **Off** by default.

Expand and Collapse

Expand or collapse all log entries respectively

Clear

Clear log for current application sessions

Tip: We recommend that you attach a copy of the log file to all requests made to our technical support group. The entries in this file will help us resolve certain issues.

Related information

Active@ UNDELETE views and windows