O&O software

O&O BlueCon 21



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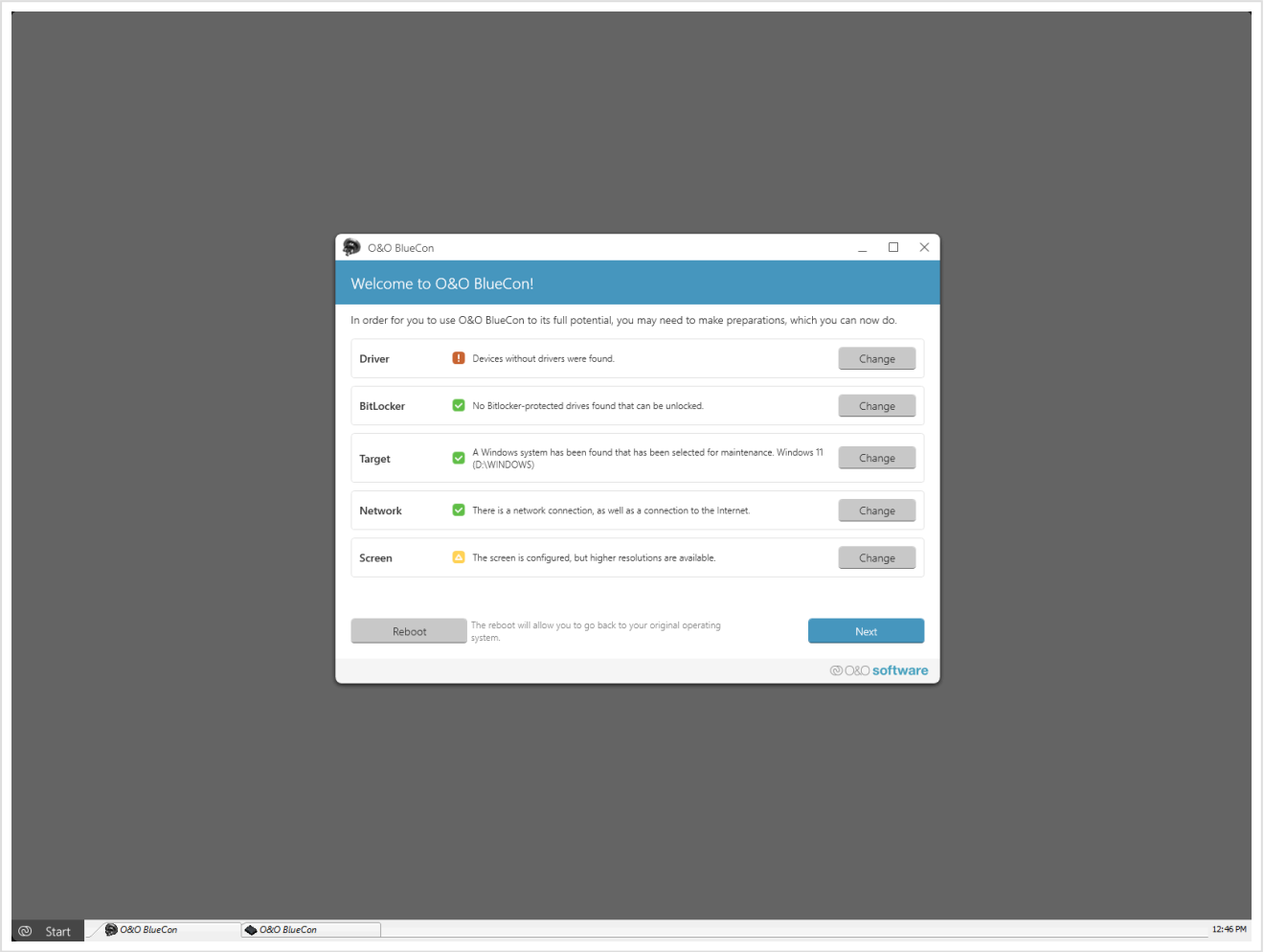
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Introduction

O&O BlueCon 21 is a collection of tools for users, administrators and service technicians that makes damaged Windows systems work again without a new installation. You start the affected computer from an O&O BlueCon boot medium. O&O BlueCon then runs its own Windows-based interface with a taskbar and a Start menu, from which you open the programs for repair, administration, data security and data rescue.



Earlier Version

This is the manual of O&O BlueCon 21. It is no longer updated. The manual of the current version is available at manuals.oo-software.com/oobluecon/.

Where to start

You want to	Start here
Get an overview of the programs	Main functions
Check the requirements	System requirements
Create the boot medium	Create a boot environment
Start a computer with O&O BlueCon	Start O&O BlueCon from the boot medium
Solve a typical problem step by step	Application scenarios
Get help	Support and more from O&O

Programs with their own help

The following programs on the boot medium have their own help, which you open with the help function of the program:

- O&O DiskImage (included in certain licenses and editions of O&O BlueCon)
- O&O SafeErase
- O&O DiskRecovery
- O&O PartitionManager

License

O&O BlueCon is commercial software. Which programs the boot medium contains depends on your license and edition. For questions about licensing, contact O&O Software; see Support and more from O&O.

Main functions

A total Windows system crash is every administrator's worst nightmare. If a new start or restoring the old settings doesn’t help then it is mostly too late. O&O BlueCon is a powerful toolkit specifically developed for IT professionals and system administrators to provide quick and effective solutions in critical situations. It is primarily aimed at restoring systems that no longer start, recovering important data, diagnosing and fixing system errors, as well as performing comprehensive system maintenance and management tasks.

O&O BlueCon provides a whole range of refined tools for solving problems. A particular highlight is the ability to start O&O BlueCon from CD ROM with no prior installation. This enables you to access systems that cannot be started anymore from the hard disk. This prevents data being damaged by additional or new installations of Windows.

There are many situations in which O&O BlueCon can help you. We have listed the most common for you here to give you an idea of O&O BlueCon’s performance range:

Windows-based interface With O&O BlueCon the user has a task bar, Start menu and all appropriate program buttons at their disposal. This enables access without entering command lines and with just a few simple mouse clicks. Navigation, as in Windows, can be done with the mouse. For execution, editing or creation of basic files users have a command-line editor at their fingertips.

Backup data from defective systems Copy data from defective systems to external storage media. You can access your system without having to write on it – this gives you the security of knowing no data will be lost. Simply start the O&O BlueCon CD and access all partitions! (see O&O FileExplorer)

Disable defective drivers and system services Amongst the most common causes of a system crash are defective drivers or system services. These are loaded before the user can log on, giving them no opportunity to remove or replace them. With O&O BlueCon you can simply disable the driver or service, or replace them with a new version! (see O&O DeviceManager)

Edit the Registry The registry is the central depot where all system and user settings are saved. Any errors here can prevent your system from running correctly. False driver or service parameters can also cause severe problems. The O&O RegEditor enables you to change or correct entries in the registry. (See O&O RegEditor)

Gain access without an administrator password You cannot log on to your Windows system without a password. If you forget or lose this password you have to install Windows anew in order to gain system access. O&O BlueCon provides you with a tool to delete or change passwords for local user accounts so that you regain access to their systems. (See O&O UserManager)

Securely delete data With O&O BlueCon, the technology of O&O SafeErase will let you delete data, partitions, hard disks or entire systems beyond any chance of recovery. Using five different methods of deletion it is possible to overwrite data up to 35 times!

Data recovery included O&O DiskRecovery, our data rescue specialist, is integrated into O&O BlueCon to help restore data that was accidentally deleted. This lets you recover data in almost every data loss scenario caused by software, be that as a result of formatted disks, accidental deletion, or viral attack. With O&O DiskRecovery, data recovery was never so easy, quick and affordable.

Data imaging with O&O DiskImage* You can start O&O DiskImage without installation directly from the O&O BlueCon CD. If you have problems with your operating systems, you could for instance, restore a previously

created image, and afterwards continue using your computer as usual.

In case of data loss, O&O DiskImage can also be used to create a 1:1 image of the affected disk (forensic image). This image can then be mounted as a drive in Windows and you can try to rescue data using our O&O data rescue program. The advantage here is that the original disk will not be directly needed and so remains available for additional treatment, such as sending it to a data rescue laboratory.

***Note:** O&O DiskImage is included in certain licenses and Editions of O&O BlueCon. For questions concerning our licensing model, please contact the O&O Customer Center. We will be happy to help you further.

Remove/uninstall updates that were installed by Windows With this new function you can remove/uninstall updates that were installed by Windows. The O&O UpdateRemover offers much more than the in-built Windows function. This only shows and removes the "last update", whereas the O&O UpdateRemover is more detailed with a full list of updates installed and available for removal. It is also still available even if the Windows rescue environment no longer starts!

O&O BlueCon Assistant The new O&O BlueCon Assistant provides you at the start with a clear overview of all the most important functions within the program. With just one click, you can access these functions without having to go through a menu or navigation. This not only lets you see at a glance the main features that O&O BlueCon has to offer, it also saves you valuable time.

System requirements

- 4 GB RAM recommended for the base functionality of O&O BlueCon
- Bootable CD or DVD drive
- To create a start medium, O&O BuildPE requires Windows 11, Windows 10, Windows Server 2019 or Windows Server 2022 (all Editions)
- The created start medium supports Windows® 8.1, 10, 11, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 and Windows Server 2022 (all Editions)
- Windows file systems: FAT12/FAT16/FAT32/NTFS4/NTFS5
- You need Microsoft Internet Explorer 6.0 or higher for correct functioning of O&O BlueCon

:::note

To start the O&O BlueCon CD, you need to have a bootable CD drive. Eventually you must change the BIOS settings for your computer. For more information please consult the documentation of your motherboard manufacturers.

:::

Application scenarios

The following are examples for quickly solving problems by using the programs in O&O BlueCon.

Forgotten password

A user forgot his system password. He cannot remember it at all. You being the Administrator are asked to help.
Solution:

1. Start O&O BlueCon.
2. Open the O&O UserManager under **Start/Programs/Administrative Tools/UserManager**.
3. Click on the icon **User accounts**.
4. Select the user who forgot his password from the list.
5. Click **Change password** and follow the directions in the dialogue window.
6. End BlueCon and restart your computer. After boot up, the user can login with a new password.

:::warning

If you want to change passwords with O&O BlueCon, you won't have access to encrypted files. Coding cannot be decrypted after the password changed!

:::

:::note

O&O UserManager can only manage local user accounts. No changes can be made to a domain controller.

:::

Access data from a computer that can no longer boot

You need data from your computer but it is no longer able to boot. Before experimenting with system rescue attempts, you can copy the most important data from your hard disk onto an external disk (e.g. USB stick or USB hard disk) using the O&O FileExplorer.

Solution:

1. Connect an external storage medium such as a USB stick or hard disk to your computer.
2. Start O&O BlueCon and open the **O&O FileExplorer** it via **Start/Programs**.
3. Scan the hard disk for files and folders.
4. Copy the files on the external storage media.

System crashes after updates

You installed a new Windows update. Your system crashes immediately or is no longer able to start.

Solution:

1. Start **O&O BlueCon**.
2. Open **Start/Programs/Administrative tools/O&O UpdateRemover**. The updates are loaded.
3. Select the last installed update and click **Remove update**. The update is uninstalled, if possible.
4. Restart the computer.

Completely delete data

If you sell, give away, or discard your computer, it is very easy for your personal or business data to fall into the wrong hands. Windows does not completely delete data. Even formatting a hard disk is not enough to delete your data. You don't have access to it right away, but unauthorized access is still possible using special reconstructing software.

O&O SafeErase deletes your data using processes which are recommended by the US Department of Defence or the Federal Office for Information Security of Germany.

Solution:

1. Start O&O BlueCon.
2. Open **Start/Programs/Data security/O&O SafeErase**.
3. Select the desired activity in the O&O-SafeErase Assistant and follow the directions of the dialogue window.

:::note

Please bear in mind that data deleted with O&O SafeErase cannot be restored! Please make sure that before you delete anything, that you really would like to delete the data or that you have saved a back-up copy in another location (security copy).

:::

:::note

Detailed information to the secure deletion of data is available in the program Help of O&O SafeErase.

:::

Reconstruct deleted data

A user deleted important files or folders by accident. In addition, he even emptied the Recycle bin. Since he really needs the data, it needs to be restored quickly.

Solution:

1. Start O&O BlueCon.
2. Start O&O DiskRecovery under **Start/Programs/File Recovery/O&O DiskRecovery**.
3. Click **Next** in the data recovery dialog to reach the selection of drives.
4. Now select the drive where you want to restore data. If you are not sure, select all drives.
5. Confirm the default settings for the data rescue on the next page. Afterwards, you can start your data rescue.
6. Select the files you want to restore from the folder and details list. To be totally sure, you can also select all. The preview function lets you see the contents of certain file types (Graphics/Images). This function is enabled

with **Preview**.

7. You will then get to the selection of the target folder of the restoration. Please make sure that the target folder is not located on one of the drives where recovery is taking place.
8. In the next step the files will be restored. After this is complete, you will be able to view a status report of all actions taken up to this point. You can now end O&O DiskRecovery and navigate to the target folder with your rescued data.

:::note

Please make sure you have enough disk space for the recovered data.

:::

:::note

More detailed information about data recovery can be found in the O&O DiskRecovery Help.

:::

Change system partitions

If your hard disk is only divided into one partition, you can assume to find your system files as well as your private data on it. If you want to create a system and a data partition, you must start O&O PartitionManager directly from the Start medium. Shrink the partition to the minimal size (based on the amount of data), and use the area that's now free to create the desired number of partitions. Please follow the steps below:

1. Start O&O PartitionManager under **Start/Programs/Administrative Tools/O&O PartitionManager**.
2. Right-click the selected system partition and then click **Change location and size**. In the dialogue box, go to **Partition size** and set the minimal size. The space you now have available will be subsequently displayed in the view of the disk.
3. Generate a **New partition** by right-clicking on the free area.
4. If you want more subdivisions, then set the parameters for size in a way that there will still be space for additional partitions. In the dialogue you'll also be able to perform additional functions such as assigning drive letters or the type of drive.
5. You will then be able to create the next partition in the same way. The new partition will be created after you've confirmed your selections.

:::warning

If the application is unsuccessful, there is a risk that your data will be either partially or fully lost. That's why you should backup all the original partition's data onto a removable medium or another partition.

:::

:::tip

You can mark the new primary partition as active by right-clicking. This setting is important if you have or want to install one or more operating systems on this hard disk. The setting specifies that the bootloader of the operating system is written on this partition, and that it should be started from there. If you have several operating systems installed on one hard disk, the operating system which was installed last will always start. Only one "active"

primary partition can exist on one hard disk. If you are not sure please do not make any changes and keep the default settings.

:::

Access and repair systems over wireless networks

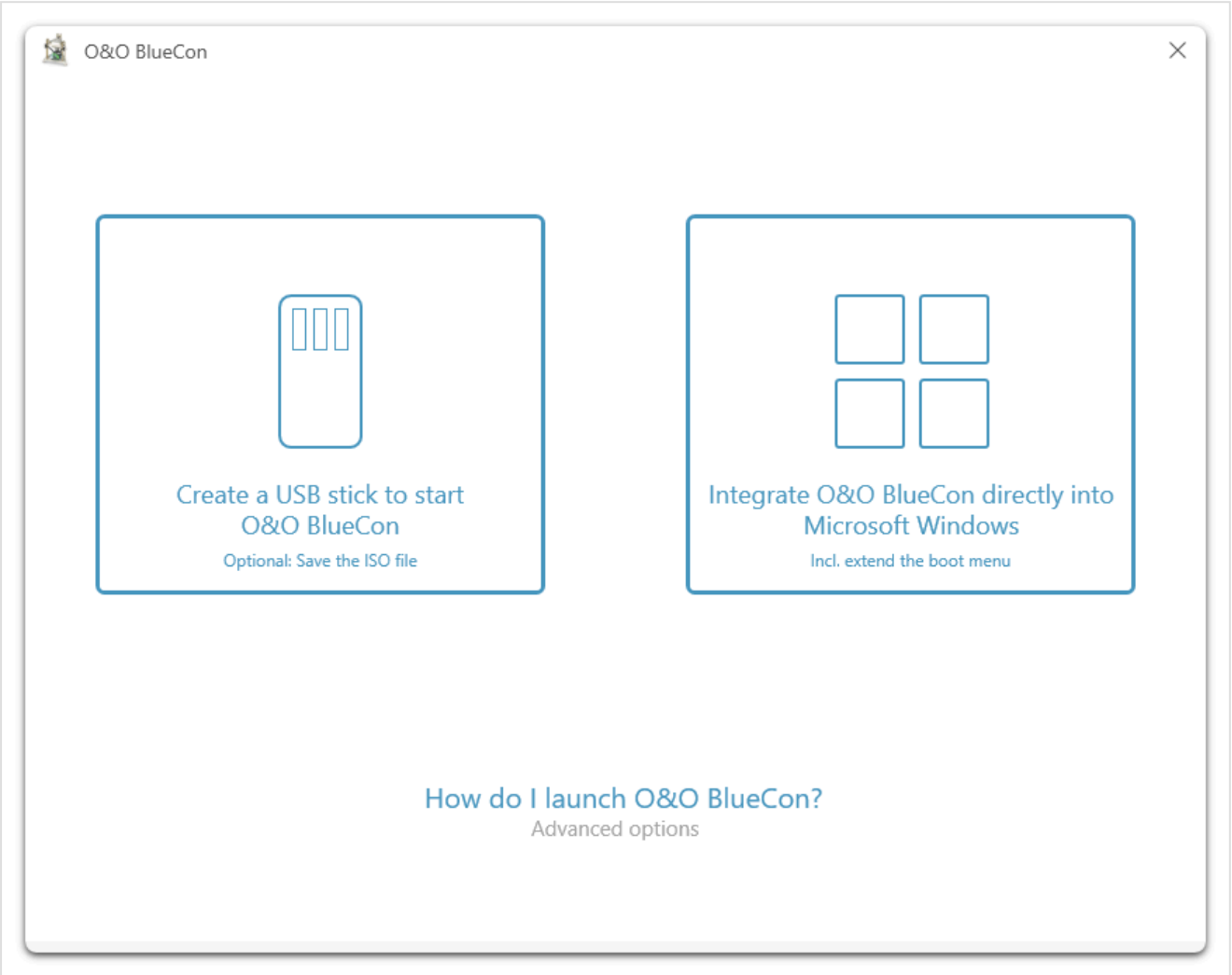
The WLAN support in O&O BlueCon is an enhancement that significantly increases flexibility and mobility. This feature allows them to access and repair systems over wireless networks, making it much easier to handle situations where a wired connection is not possible or practical.

Traditionally, accessing a system for repair or maintenance required a direct physical connection, such as Ethernet, which could limit your ability to quickly respond to issues, especially in large, complex, or physically dispersed network environments. With the introduction of WLAN support, O&O BlueCon addresses these limitations by providing the capability to connect to and work on systems remotely, without the need for physical network connections.

This advancement is particularly beneficial in scenarios where the system in need of repair is located in a hard-to-reach area, such as a remote office, a secure data center, or an area without easy access to network infrastructure. You can now perform a variety of tasks over a wireless connection, including system diagnostics, data recovery, and applying fixes to common problems that prevent a system from booting properly.

Create a boot environment

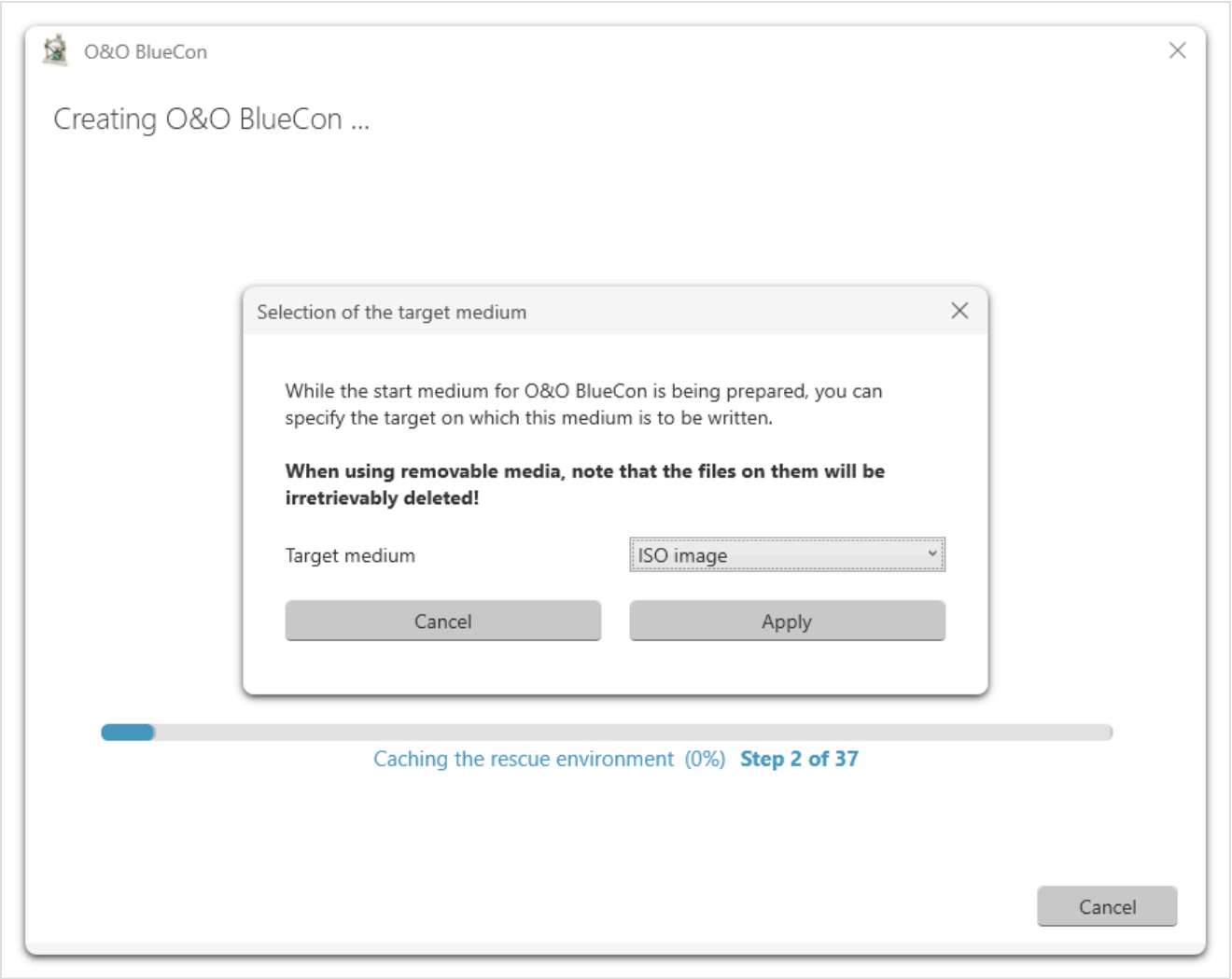
With O&O BlueCon, you can quickly create a boot medium to access non-starting systems as an emergency system and perform various maintenance and repair tasks.



Before you start, make sure you have purchased and downloaded O&O BlueCon. You will need an appropriate storage medium for the boot medium, typically a USB stick with sufficient storage space or integrate O&O BlueCon directly into your Windows installation.

Create a USB Stick/ISO/WIM Select the target on which the boot medium will be created. In most cases, this will be a USB stick. Connect the USB stick to your computer and select it. After selecting the storage medium (USB stick/ISO/WIM), you can begin the creation process. O&O BlueCon automatically creates the version suitable for your license.

Please note: The chosen USB stick will be completely overwritten. All data on it will be lost!



Once the creation process is complete, you will receive a message confirming that the boot medium has been successfully created. You can now safely remove the medium from your computer.

To use your boot medium, you need to restart your computer and configure the BIOS or UEFI to boot from the USB stick. Once the computer has started from the USB stick, you have access to the O&O BlueCon tools to perform various maintenance and repair tasks.

Integrate O&O BlueCon directly into Microsoft Windows To start a computer in the event of a system error (e.g., bluescreen, or if the computer is infected with malware) using the PE boot environment, you can integrate it into the Windows recovery environment.

:::note

Integrating into remote systems is not supported for some boot environments.

:::

Once the creation process is complete, you will receive a message confirming that the boot medium has been successfully created. O&O BlueCon has been integrated into your Windows, restart the computer and select O&O BlueCon from the boot menu list. O&O BlueCon will now start.

Start O&O BlueCon from the boot medium

:::note

A minimum of 1GB RAM is required for starting O&O BlueCon with the bootable disk (boot medium).

:::

Create or start the boot environment

Here you can find out more about creating the O&O BlueCon boot environment: Create a boot environment.

No installation is necessary for O&O BlueCon. O&O BlueCon starts directly from the boot medium. You need the boot medium (CD/DVD or USB stick) when, for example, Windows is no longer able to start or you want to make changes to the system partition. To start, proceed as follows:

Start from CD/DVD

1. Make sure your computer can be started from the CD. You can place the appropriate settings in BIOS. Further information can be obtained from your motherboard manufacturer.
2. Insert the O&O BlueCon Start CD/DVD in your computer's optical drive.
3. Restart the computer. Follow the prompts for starting from CD/DVD.



4. The system settings will then appear in the window. Select a language and region.
5. At the next stage you can load drivers for those devices where no drivers under Windows PE were initially found, see also chapter **Control Panel/Load Drivers**.
6. O&O BlueCon will be started after confirmation of the licensing provisions.

Start from USB stick To start from a USB stick, you'll usually have to change the boot sequence in your computer's boot menu. Alternatively, you can also configure appropriate settings in the BIOS. You can find out more about this from your motherboard's manufacturer.

1. Open the boot menu while the computer is booting.
2. You can change the sequence in the menu if you place the USB entry (removable devices) at the beginning.

3. After this, your computer will recognize the USB stick as a boot medium and will start O&O BlueCon from

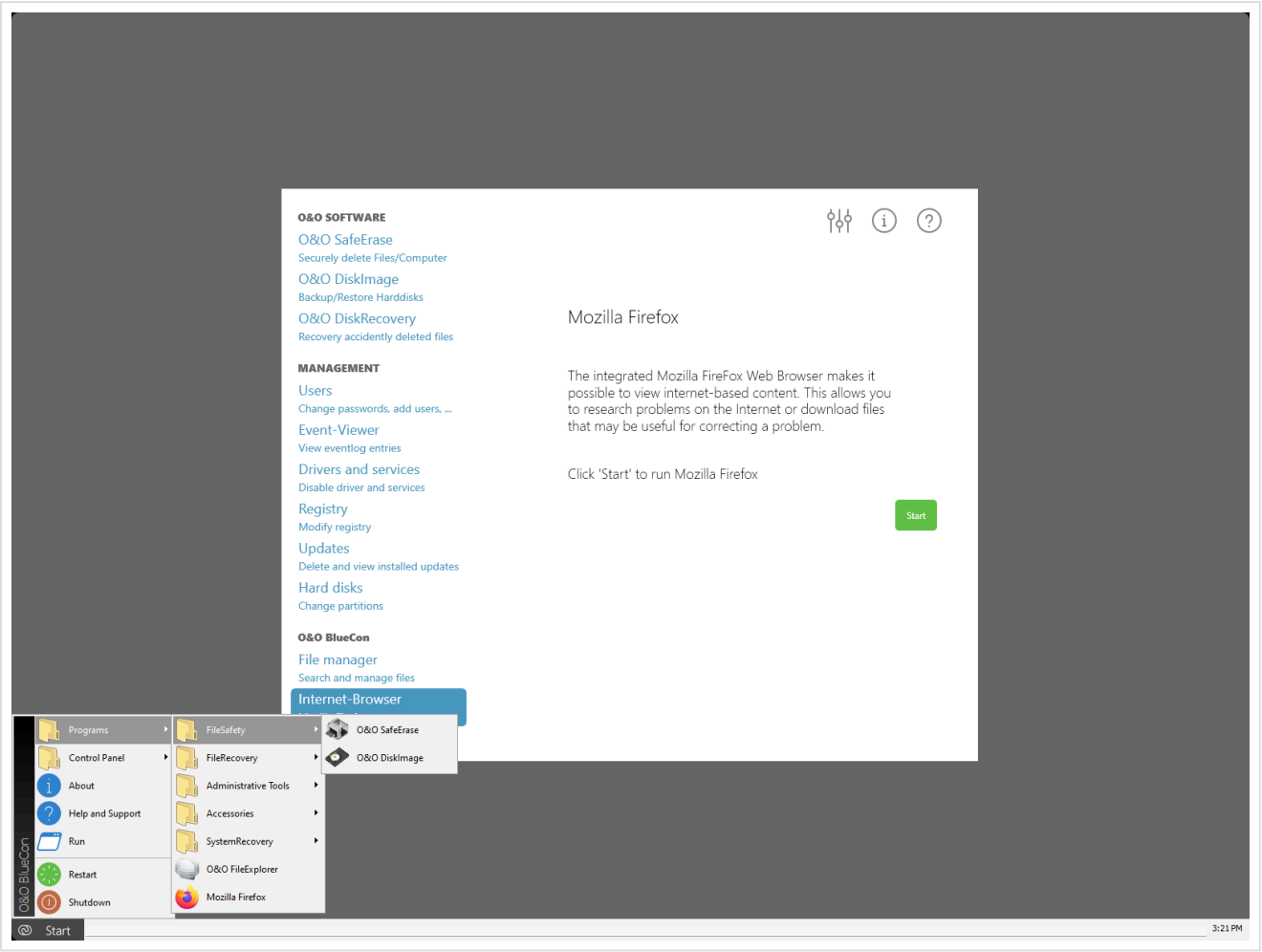


there.

Start programs from O&O BlueCon

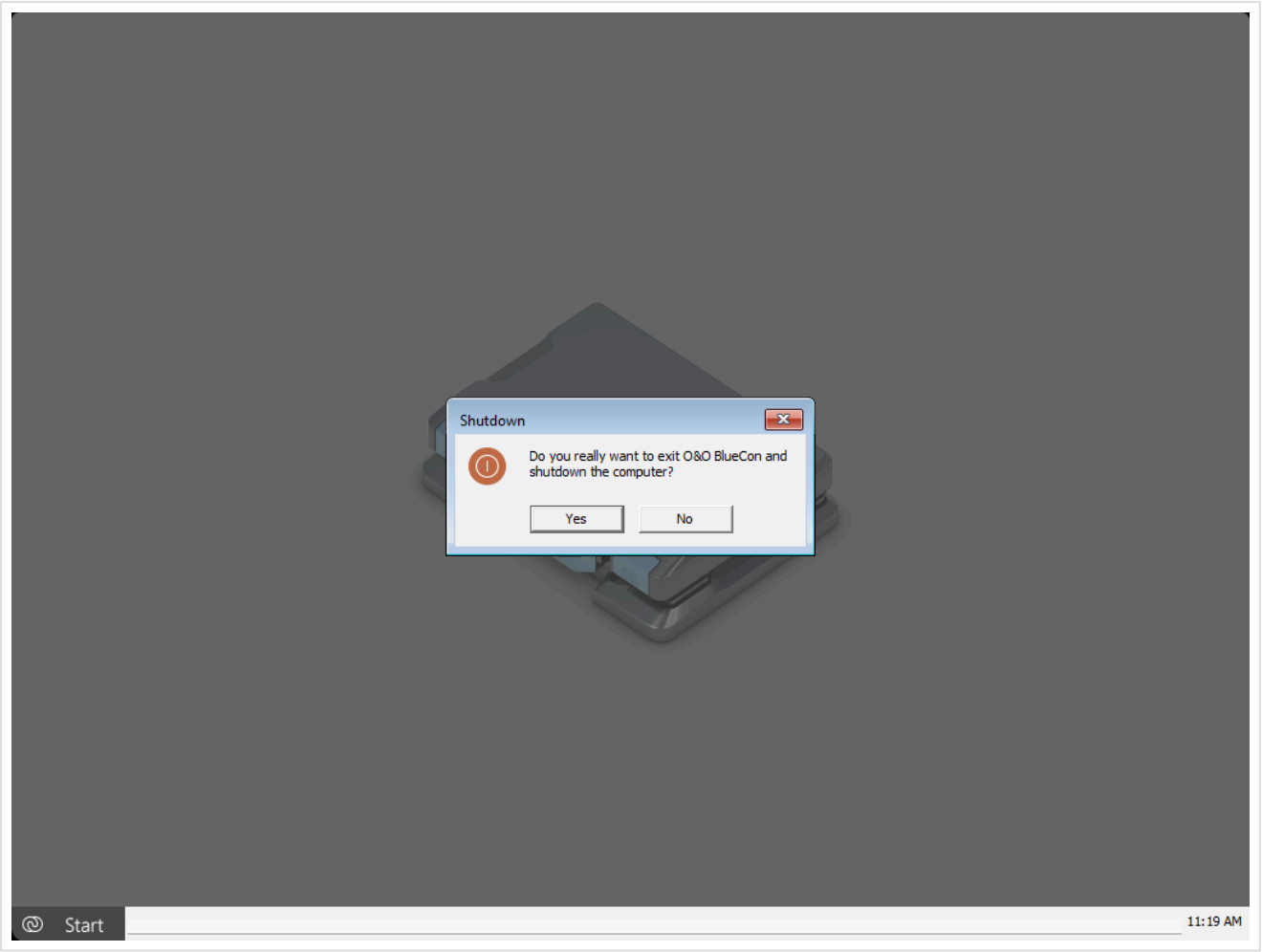
When starting O&O BlueCon, you will be asked to accept the license agreement. After that, you have the option of making customized settings for the system. In most cases it is not necessary to change anything. O&O BlueCon will automatically select the best settings for your system on its own.

In the Start menu under **Programs** you will find all programs for restoration, management, security, and data rescue. You can also consult the online Help. Simply click **Help and Support** in the Start menu.



Close O&O BlueCon

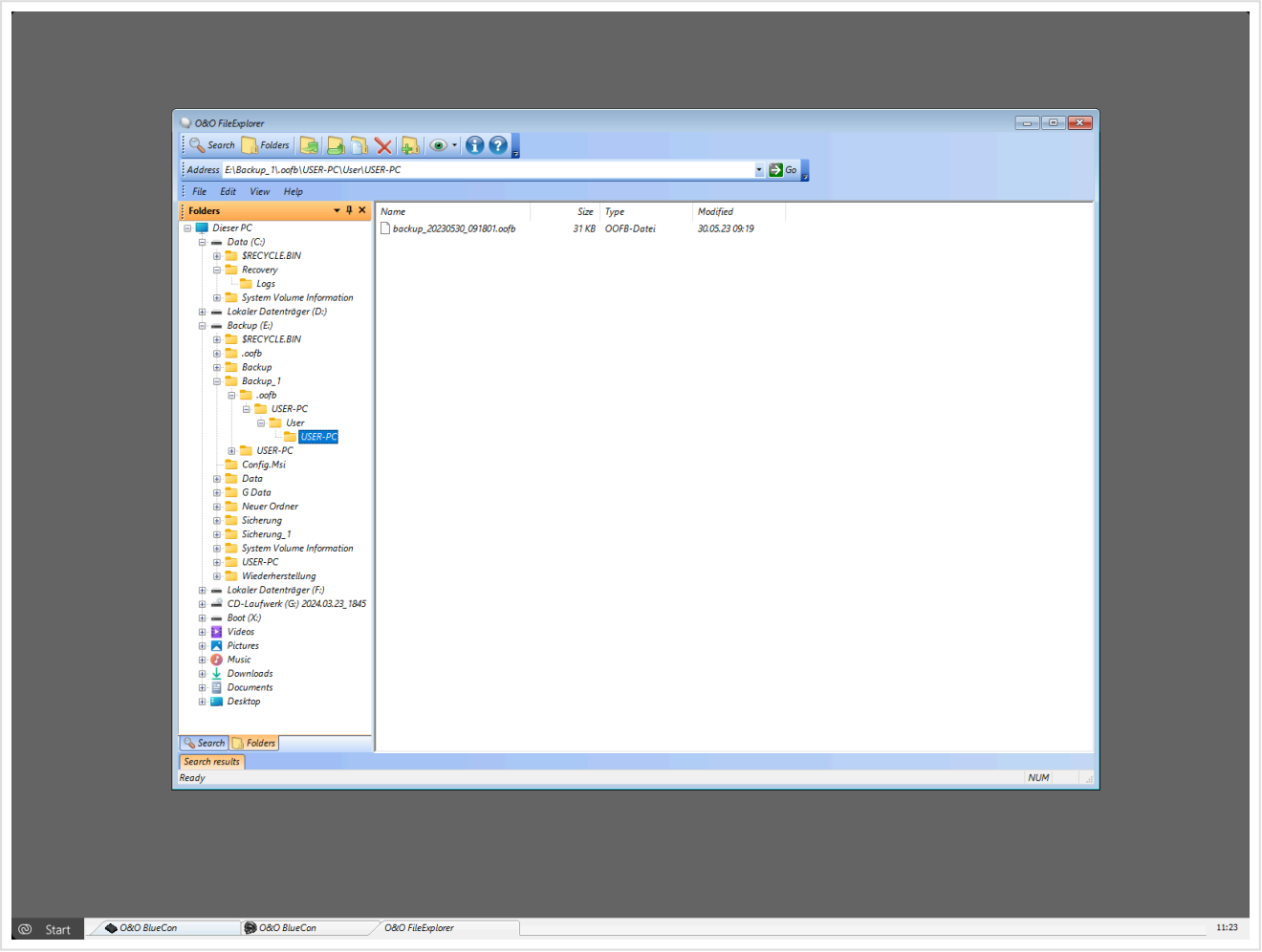
To close O&O BlueCon, click Start and select either Restart. (O&O BlueCon is closed and the computer is restarted) or **Shut down** (O&O BlueCon is closed and the computer shut down).


Shutdown
Do you really want to exit O&O BlueCon and shutdown the computer?
Yes
No
Start
11:19 AM

O&O FileExplorer

If your system is damaged, you have practically no chance of accessing your files to back them up. O&O FileExplorer allows you to navigate through your computers' entire file system.

- To open O&O FileExplorer click **Start/Programs** and then **FileExplorer**.



Search for files and folders

1. To look for certain files and folders in your computer, click **Search**.
2. Enter the required file or folder name. You can refine your search by entering further search criteria in the Search menu.

Copy, move or delete files and folders

Files and folders can be copied, moved or deleted over the context menu. Alternatively, you can also use the appropriate instructions in the Toolbar.

:::note

If you connected external storage media to your computer after booting O&O FileExplorer, you need to restart O&O FileExplorer so that all connected drives will be recognized.

:::

Build a network drive connection

A special feature of O&O FileExplorer is the direct connection of network drives to other servers.

1. In the **O&O FileExplorers** file menu, click **Network Drive Connection**.
2. A free drive-letter will be selected and you can enable the UNC Path.
3. A registration field for the target system will appear and you should have an account for it.

O&O FileExplorer does not offer a separation of network drives. This is rarely needed, but can be done under **Start/Run** with the command `NET USE <Drive>: /DELETE`.

View drive/file properties and NTFS access permissions

Access permissions To view access permissions, select **Permissions** from either the file menus or respective context menu.

File properties File properties can be managed over the context menu. File information can be read, file attributes changed or NTFS rights managed.

:::warning

Removing NTFS Rights can prevent access to files. A later addition of NTFS permissions is not possible under O&O BlueCon.

:::

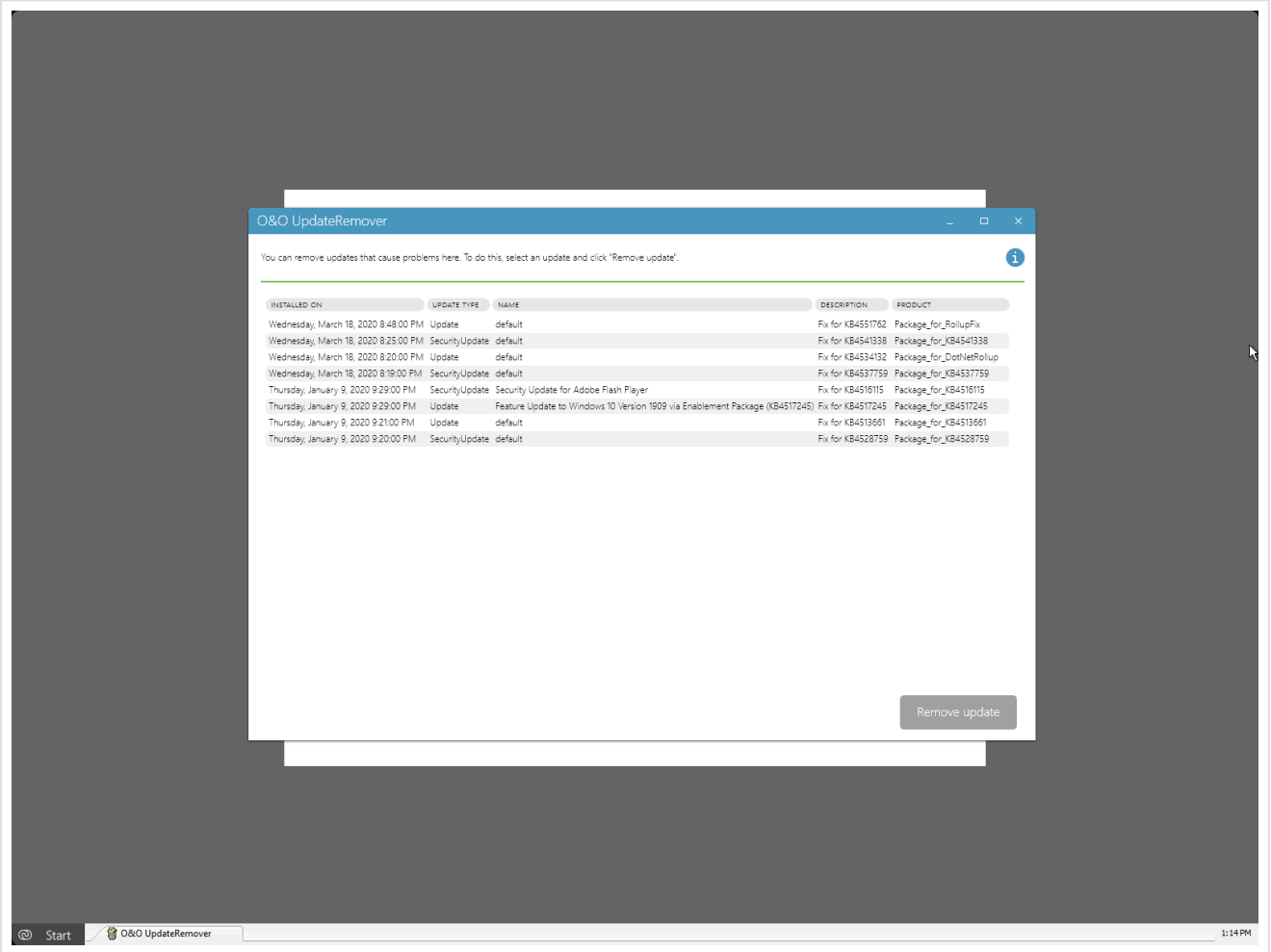
Drive properties If you right-click a drive under **Properties** you will find information about its total capacity as well as information regarding the drive's free and used capacity.

O&O UpdateRemover

Remove updates Whenever a Windows update causes problems, especially if the computer is no longer able to start, you can use O&O UpdateRemover to remove the defective update.

Once you start O&O UpdateRemover, it begins detecting Windows updates. This might take some time, depending on the age of the computer. After all the updates are found, you can select the one you want to remove by clicking on it. You can then select **Remove update** at the lower right and in the lower section, you'll be able to see the progress of the deletion.

While deletion of the update can be stopped, this will not result in the update being reinstalled. The current action will be closed and the system restored to a pristine condition. In certain cases deletion of the update must be completed in order for the system to remain bootable. If you've deleted an update by mistake, you can reinstall it under Windows.



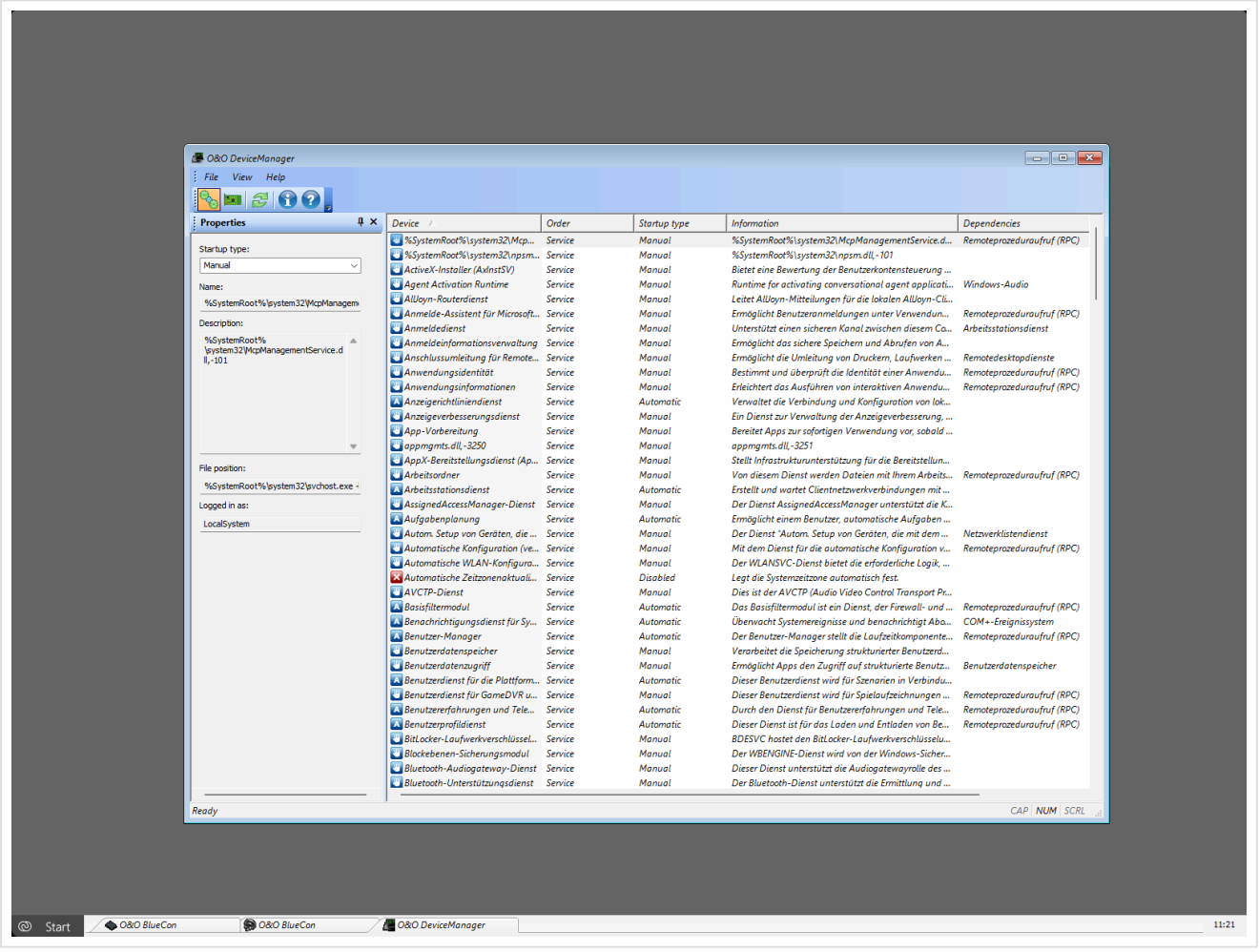
O&O DeviceManager

The O&O DeviceManager provides the best possible overview of the installed hardware. It is organized in driver and service management.

- To open the Driver Management function in the O&O DeviceManagement, click **Start/Programs/AdministrativeTools** and then **DriverManager**.
- To open the Service Management function in the O&O DeviceManagement, click **Start/Programs/AdministrativeTools** and then **ServiceManager**.

Driver management

Driver management can influence the start and stop time of the hard and software drivers. This function is especially helpful if missing drivers prevent the system from starting.



- Select the symbol for the driver management.
- You can now select a driver from the list. You have several options for setting the start time of each driver:

- **Disabled:** Sets the start mode into disabled. The driver is not loaded. To disable a driver, select it and click **disable** under start time.
- **Boot:** Sets the start mode to boot. The device boots before all others. The driver is loaded and started while Windows is booting.
- **System:** Sets the start mode to system. The device starts after all boot devices have started. The driver is started at a random time by the system. This does not have to be during the system start.
- **Auto:** Sets the start mode to automatic. The device starts after all boot and system devices have been started.
- **Manual:** Sets the start mode to manual. The device does not start automatically. The user can start it manually after login.

Service management

You can find Services next to the Driver Management icon in the toolbar. The Service Management function in the O&O DeviceManager can customize the startup type of Windows services. This means defective or superfluous services can be disabled, thereby making a new system start possible. Proceed in the same way as with Driver Management.

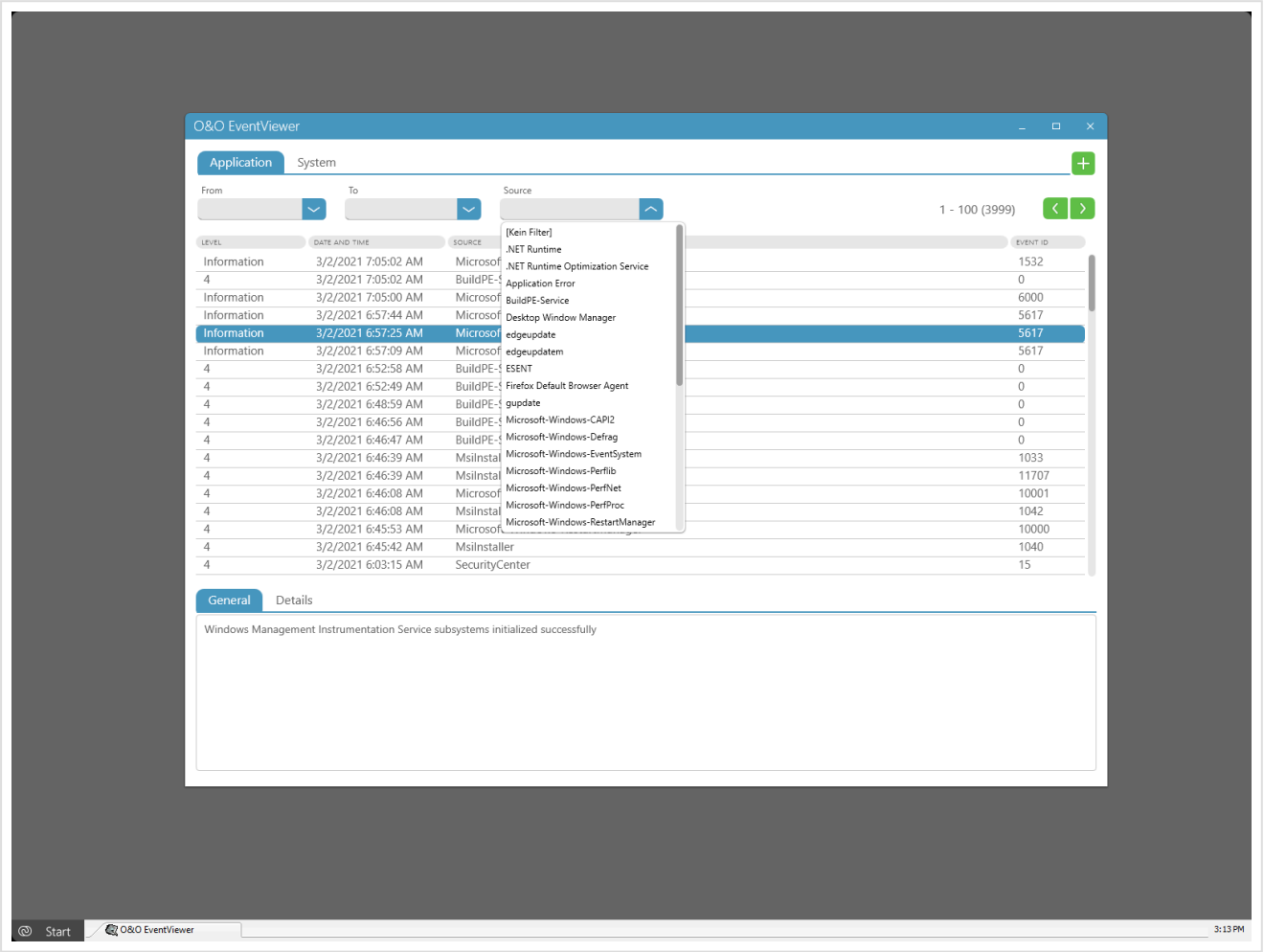
O&O Check & Repair

A system analysis and check, with the option of having any inconsistencies and errors corrected automatically. O&O Check & Repair checks your hard drive or SSD for inconsistencies that can lead to problems. The component memory and the Windows system files are checked for errors. After the check is complete, O&O Check & Repair will show you whether and which errors were found.

Most errors can be corrected directly with the repair function.

O&O EventViewer

The O&O Eventviewer gives you the option to evaluate current as well as imported event logs. In the upper section you'll be able to switch form area, it is possible to switch between system and program event logs. It is also possible to filter the event logs according to date and source using the buttons above the table. To the right of the filters there's an option for browsing the event log pages.



You'll be able to have additional information about an entry displayed by clicking the corresponding line in the table. In the lower section you can toggle between general and more detailed information.

To import an event log, click the button with the plus symbol in the upper right-hand corner. You'll then be able to load a file with the evtx extension into the program.

O&O RegEditor

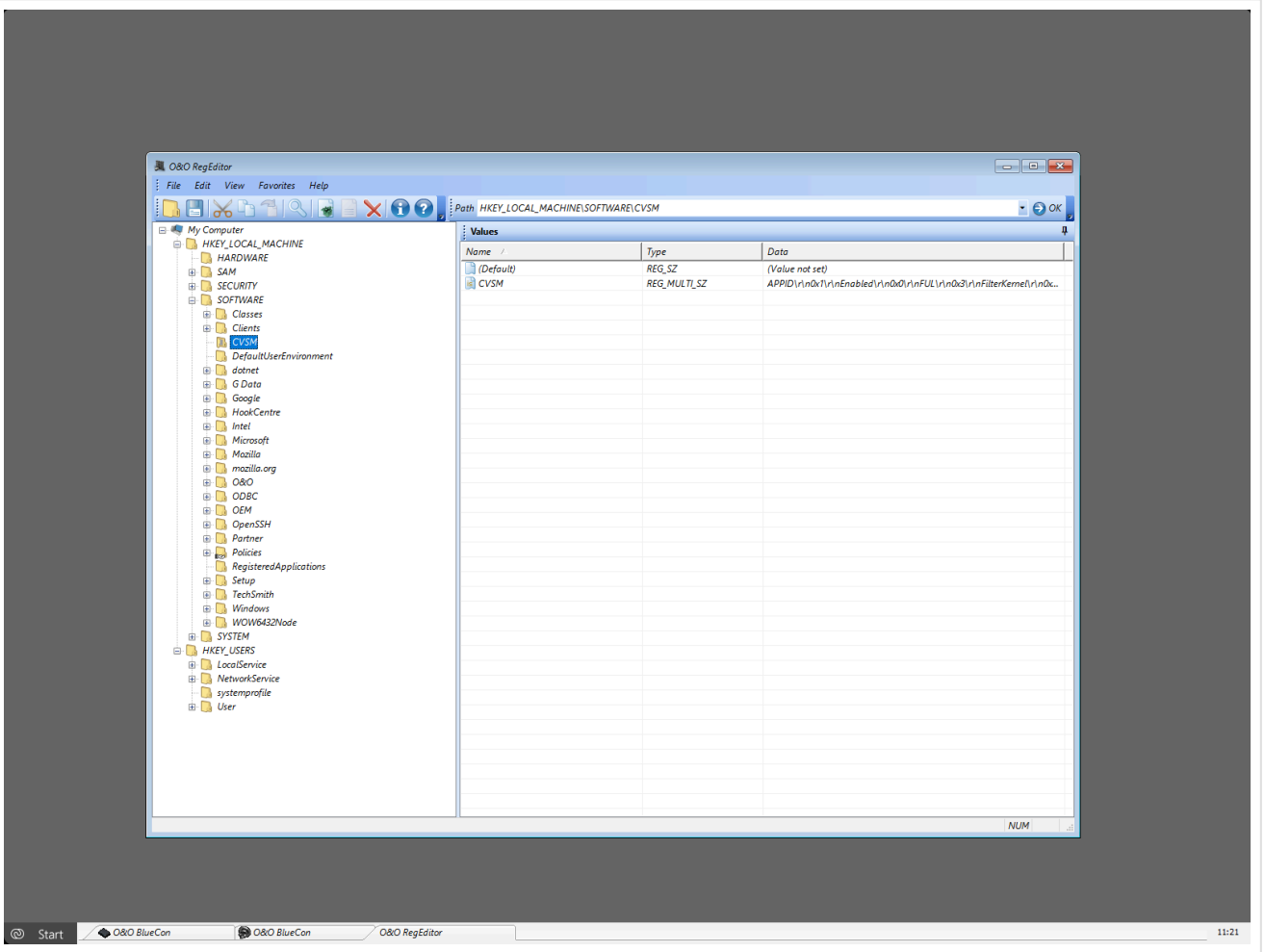
O&O RegEditor is similar in structure to the well-known Windows RegEdit. The O&O RegEditor provides full access to the Windows registry database. The settings for numerous Windows applications, drivers and services are saved here. A special feature of O&O RegEditor is the direct navigation over the address line. At that point, the DNS name will be automatically entered.

- To open O&O RegEditor, click on **Start/Programs/AdministrativeTools** and then **O&O RegEditor**.

:::warning

The incorrect use of O&O RegEditor can cause severe problems affecting the whole system and may cause the need to reinstall the operating system. Before making changes to the Registry database in Windows, you should make a backup copy of all important computer information with an imaging program, such as O&O DiskImage. O&O cannot guarantee that problems caused by the incorrect use of O&O RegEditor will be repairable.

:::



Important information regarding O&O RegEdit

The correct functioning of Windows systems relies strongly on information saved in the registry database. Incorrect information in this database can cause the total crash of a Windows system.

O&O RegEditor allows for the reading and editing of the maintenance system of the registry database, even when the maintenance system is no longer operational.

Navigation is over a tree structure in the left-hand window, just as in Windows. The two main keys `HKEY_LOCAL_MACHINE` for computer-specific data and `HKEY_USERS` for user-specific data are displayed here.

All user profiles of the maintenance system are displayed in the user-specific area.

The root key normally found under Windows `HKEY_CURRENT_USER` does not exist, since no current user is registered. You can reach these entries under `HKEY_USERS`, followed by the key with the appropriate user name.

The under Windows usual branch link `HKEY_CLASSES_ROOT` does not exist, but may be opened over the key `HKEY_LOCAL_MACHINE\SOFTWARE\Classes` or the corresponding subkey in `HKEY_USERS`.

The root key `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet` for service and driver configuration also does not exist, as the maintenance system has not loaded a current ControlSet. To reach the ControlSet, under `HKEY_LOCAL_MACHINE\SYSTEM` you can find several ControlSets (ControlSet001, ControlSet002, etc.). The current one is listed under `HKEY_LOCAL_MACHINE\SYSTEM\Select\Current`. It is normally ControlSet001.

The root key normally found under Windows `HKEY_CURRENT_CONFIG` does not exist, but can be opened over the key `HKEY_LOCAL_MACHINE\SYSTEM\ControlSetXXX\Hardware Profiles\Current`. XXX is listed as the value from `HKEY_LOCAL_MACHINE\SYSTEM\Select\Current`.

Before changes can be made it is recommended that an Export (REG file) of the relevant key is made so that in any later import the changes can be made retrospectively. The exported REG files are compatible with the Windows REG files.

O&O RegEditor also allows for the editing, adding or deleting of keys and values. All data types recognized by Windows can be processed:

- REG_SZ: Symbol chain
- REG_DWORD: DWORD number, 32-Bit long
- REG_MULTI_SZ: Several symbol chains
- REG_EXPAND_SZ: Extendable symbol chain (environmental variables are employed)
- REG_BINARY: Binary values
- REG_QWORD: QWORD number, 64-Bit long

Various entry formats can be used when changing values. They can be entered in hexadecimal, decimal or binary formats.

What is the difference between a key and a value?

One or more values can be assigned to a key.

Keys are organized around main and subkeys. The main keys of O&O RegEditor in O&O BlueCon are:

- `HKEY_LOCAL_MACHINE`
- `HKEY_USERS`

Under these main keys are several sub keys, which in turn own further sub-keys.

Browse the Registry Database

1. Open **O&O RegEditor**.
2. Click **Search** in the ToolBar and you have access to entries in the registry database.
3. In the search field, enter the string, value or key that should be found.
4. Check the appropriate tick-box such as key, value or data.

Create new keys

1. Open **O&O RegEditor**.
2. Select a key (folder) and create a new key by right-clicking. The new key will be created as sub key.

Create new values

You can allocate one or several values to a key.

1. Open **O&O RegEditor**.
2. Select a key where you want to allocate a value.
3. You can create a new value over the value list or by right-clicking the value. You have several value types to select from:

- Numerical values
- String
- Binary values

Change values

1. Open **O&O RegEditor**.
2. Select the key whose value you want to change.
3. Change the desired values in the value list by right-clicking. You can change the value in the edit field, e.g. vary the path, disable or delete.

Delete values

1. Open **O&O RegEditor**.
2. Select the key whose value you want to change.
3. Delete the value in the value list by right-clicking.

Manage permissions

Assign permissions to registration key

1. Open the **O&O RegEditor**.
2. Select the key on which you want to assign permissions.
3. In the file menu click **Edit/Permissions**.
4. Select the desired users under group or user names. Then assign an access permission to the selected key as follows:

- Enable the check box **Assign** under **Full access** to assign the user permissions, to open the key, and to edit it as well as accept its ownership.
- If you want to allow the user to read the file, but not change it, enable the check box Assign for **Read key**
- To provide the user with special permissions for the selected key click **Advanced**.
- If you assign a child with permissions and you want to include inheritable permissions from this object's parent, enable the check box **Include inheritable permissions from this object's parent** under **Advanced**. Include this with the entries defined here.

Export keys with values as*.reg files

1. Open **O&O RegEditor**.
2. Click **Export** in the file menu.
3. Select the *.reg file you want to export and click **Open**.

Import keys with values as*.reg files

1. Open **O&O RegEditor**.
2. Click **Import** in the file menu.
3. Select the *.reg file you wish to import and click **Open**.

O&O UserManager

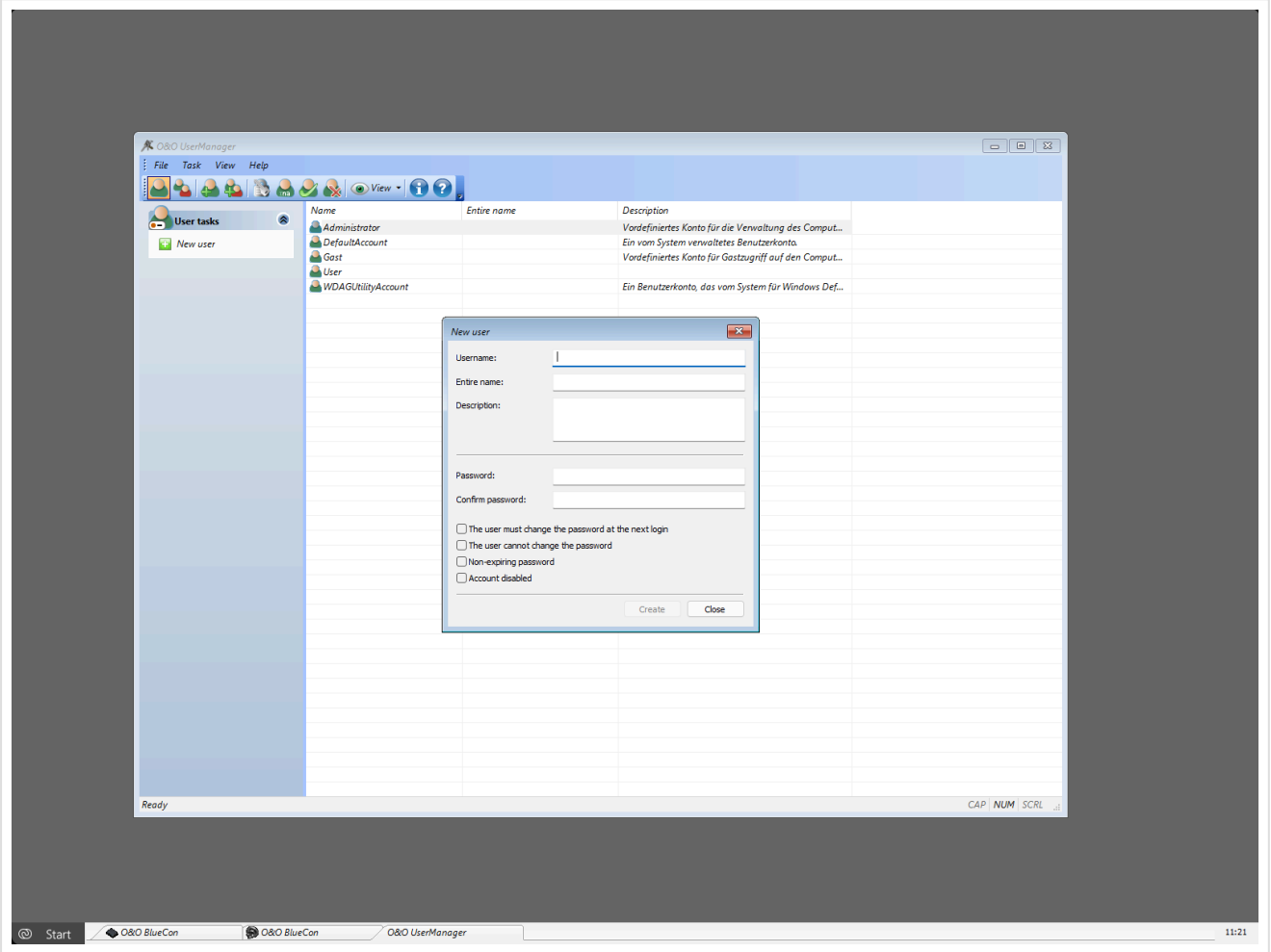
The O&O UserManager lets you control the local user management of your Windows systems.

- To open the O&O UserManager, click **Start/Programs/Administrative Tools** and then **UserManager**.

:::note

O&O UserManager can only manage local user accounts. No changes can be made on a domain controller or online access such as Microsoft logins.

:::



Change user profiles

1. Select the icon **Create user profile**.
2. Select the user in the user list whose profile you want to change.
3. Make the desired modification e.g. password or name under **user activities**.

:::warning

If you want to change passwords with O&O BlueCon, you won't have access to encrypted files. The coding cannot be decrypted after the password is changed!

:::

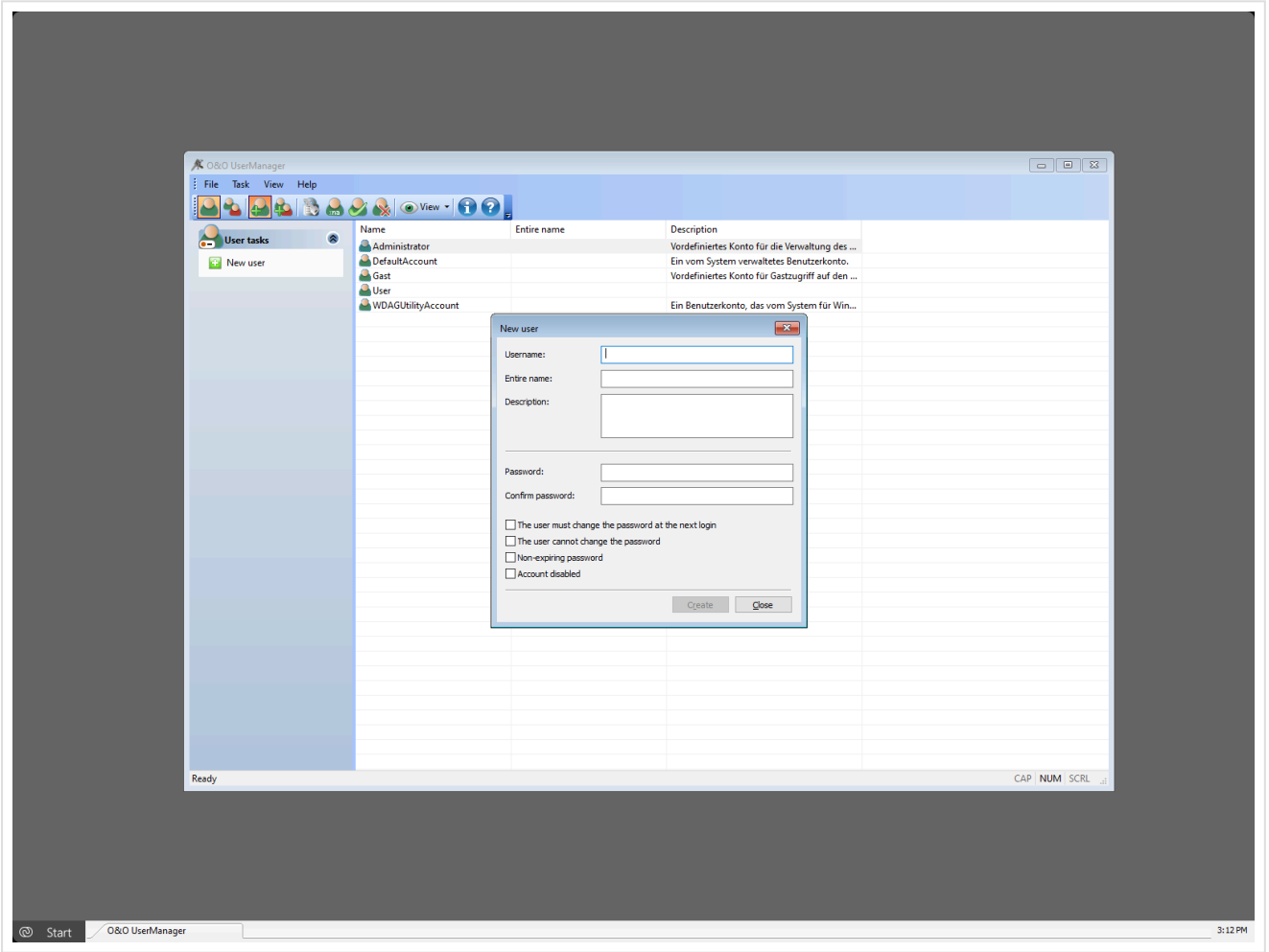
:::note

It is not possible to decrypt used passwords. But you can change passwords even if you don't know the old password. This is recommended if, for example, a user has forgotten his password.

:::

Create user

1. Select the icon **User account**.
2. In the menu **User activities** you can create a user profile with **New user**.
3. The new user will appear to the right of the user list.



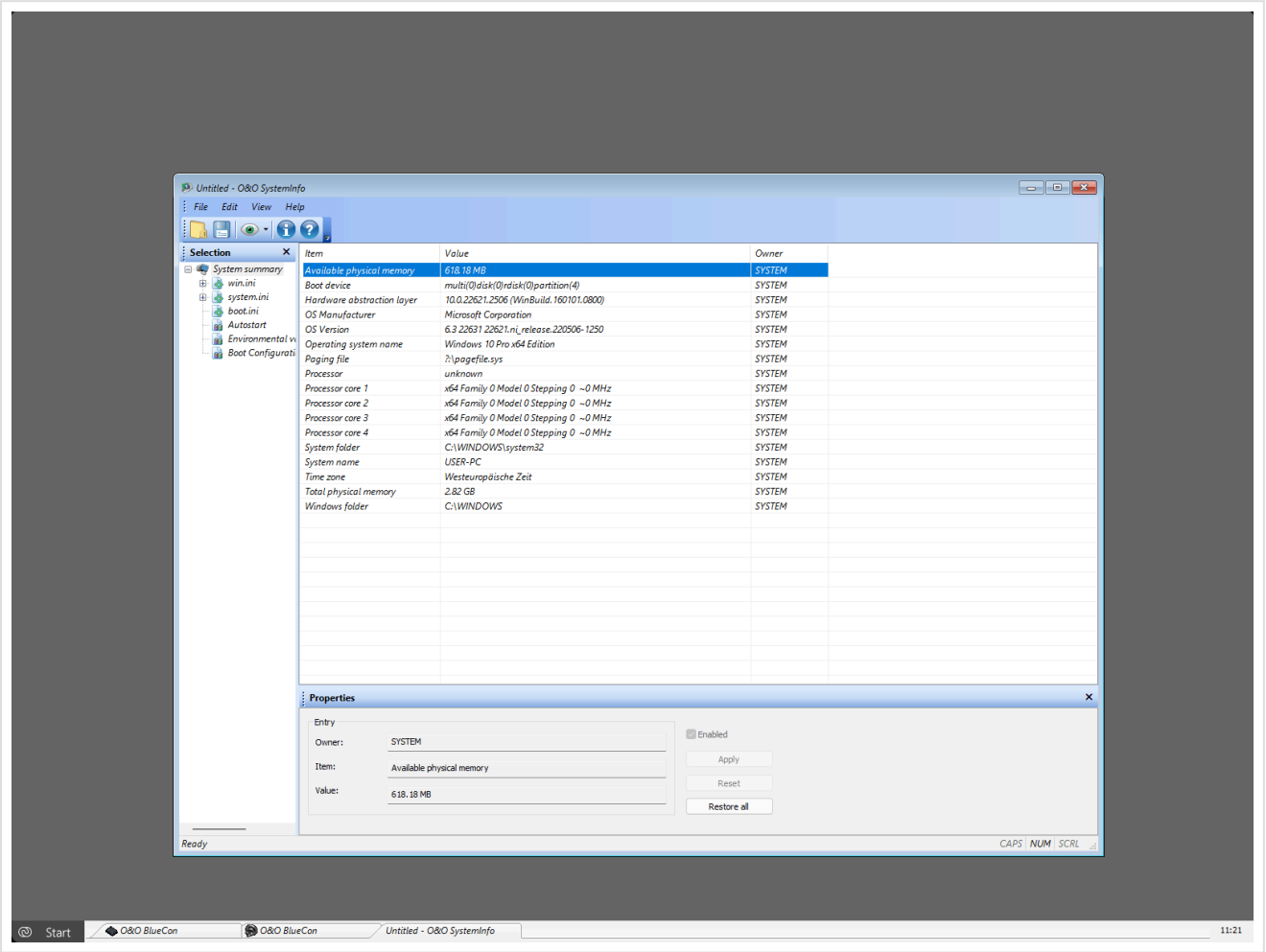
Create user groups

1. Select the Icon **User group**.
2. Click **New group** under **Groups activities**.
3. You can add new users to the group in the dialogue window under **Add**.

O&O SystemInfo

O&O SystemInfo gives you the best possible overview of the system settings in your Windows operating system. Here you can delete, disable or change system parameters.

- To open O&O SystemInfo, click on **Start/Programs/Administrative Tools** and then on **System Information**.



:::note

The Boot Configuration Data (BCD) for Windows Vista and newer operating systems is only supported to a limited degree. BCD Store cannot be manipulated and is only shown for control purposes.

:::

System Information displays:

- Configuration of the win.ini files
- Configuration of the system.ini files
- Configuration of the boot.ini files
- Autostart entries

- Environmental variables

A further important aspect of O&O SystemInfo is the presentation of a list of Autostart entries. Programs from the Autostart Program group are displayed as well as the most important Autostart areas from the registry database, including:

`HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run`
`HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Run`

These areas are also favored by virus programs as storage locations for viruses, Trojans or Spyware. The Autostart entries can be disabled and/or enabled with SystemInfo. This prevents starting damaged or infected programs.

Edit system parameters

1. Select a configuration or entry.
2. To edit a system parameter, select one from the list on the right.
3. A window will appear where you can edit.

Disable system parameters

1. Select an entry from a configuration.
2. Delete the checkmark next to “Enable”.
3. The element and its value are now disabled.

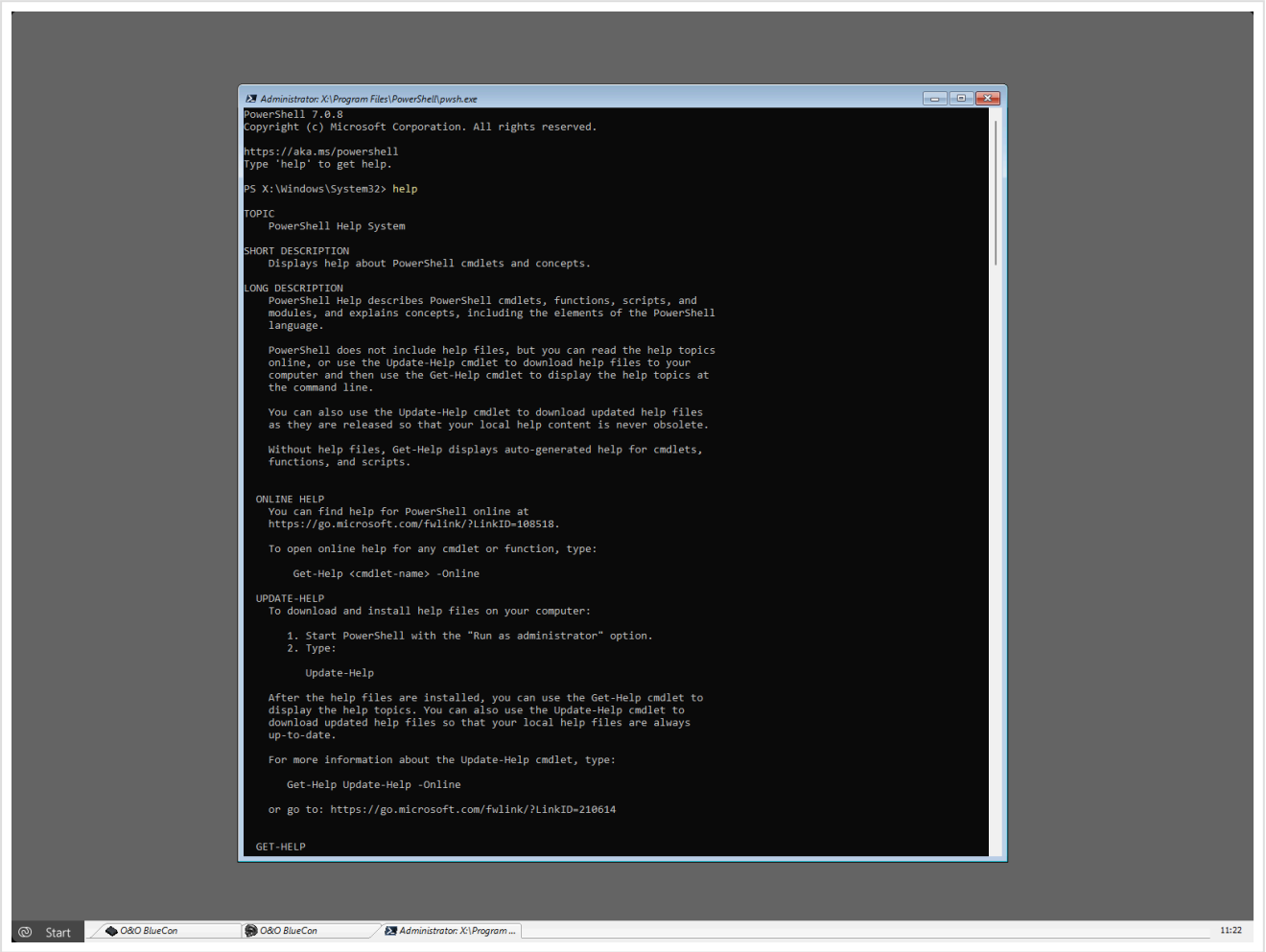
Delete system parameters

1. Click a system parameter to see its value displayed in an editing window.
2. You can now delete the parameter.

Microsoft PowerShell

The command line (Microsoft PowerShell) can be used for entering commands directly. It also enables the execution of batches.

- To open the Microsoft PowerShell, click **Start/Programs/Accessories** and then **Command line**.



The command HELP lists all available commands and their function. Please keep in mind that the screen will be automatically scrolled down when the lower end is reached. Some commands offer the option to stop the scrolling and will only continue if you press a key such as dir /p.

You can find a more detailed command description in the command directory of this guide.

Batch processing

Microsoft PowerShell makes it easy to process batch commands. This can be very useful if you have to repeat the command sequence but don't want to enter each one a new. Please complete the following steps:

1. Create an ASCII file with a text editor such as O&O Notepad

2. Enter the commands - only one command per line - with the required arguments.
3. When finished, save the file with the .BAT extension. We suggest an 8.3-name convention, as you can easier access short filenames from the console interface.
4. Execute the file in the Microsoft PowerShell, for example, c: test.bat. The contained commands will be executed in the order they were saved.

If you would like to prematurely abort a batch operation, press Ctrl+C.

Web browser, Notepad and Calc

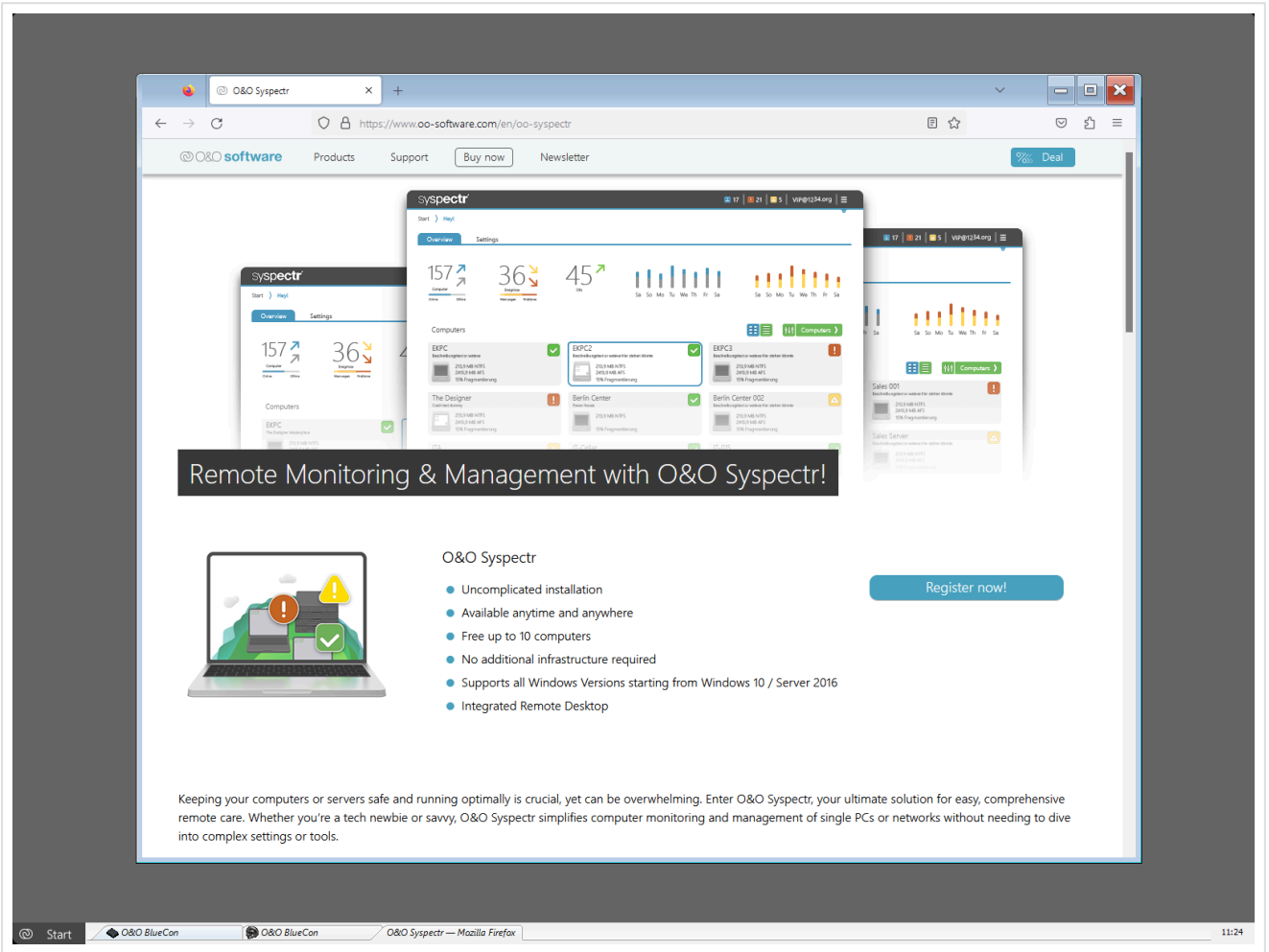
Web browser {#web-browser}

The integrated FireFox® Web Browser makes it possible to view internet-based content. This allows you to research problems on the Internet or download files that may be useful for correcting a problem.

:::note

To use this feature, it is necessary to be connected to a Local Area Network (LAN) with access to the Internet.

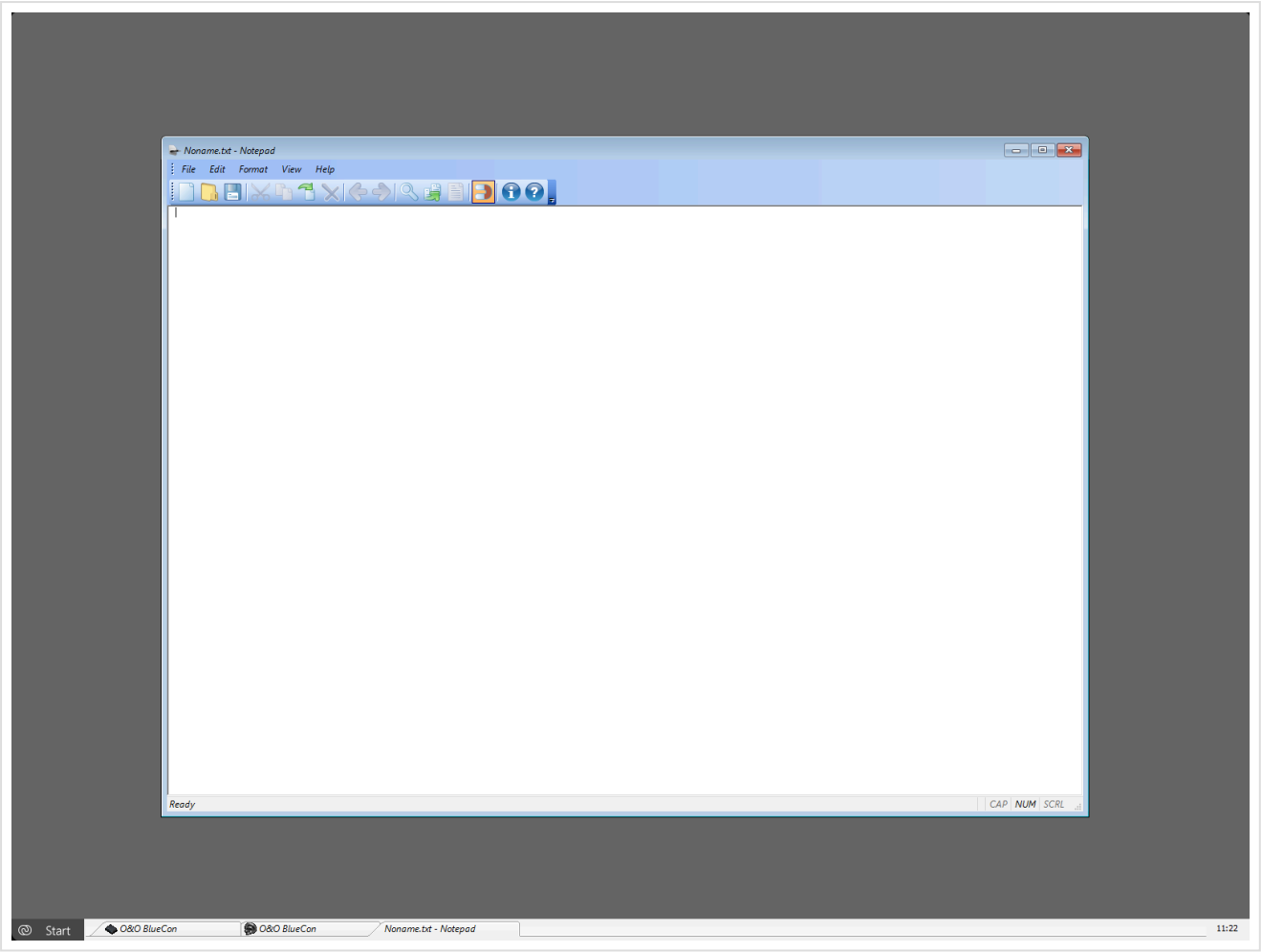
:::



O&O Notepad {#o-and-o-notepad}

O&O Notepad is a basic text editor that allows you to view, edit and save text files. Files in ASCII and Unicode may be edited using O&O Notepad.

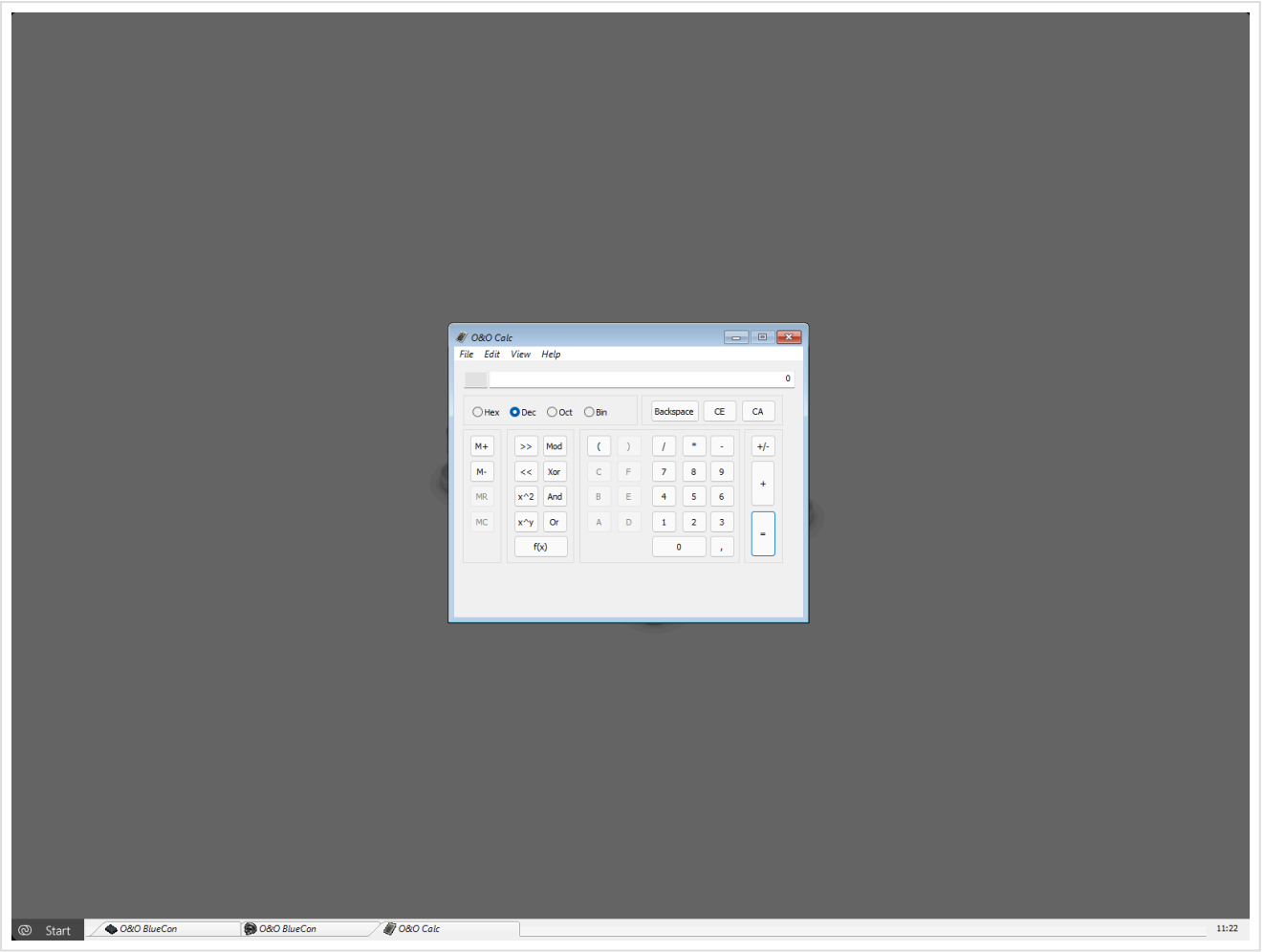
- To open O&O Notepad, click **Start/Programs/Accessories** and then **Notepad**.



O&O Calc {#o-and-o-calc}

O&O Calc, O&O BlueCon's built-in calculator, makes it possible to perform basic arithmetic as well as conversions between commonly used number formats (Decimal, Hexadecimal, Octal and Binary). Additionally, O&O Calc is able to calculate equations.

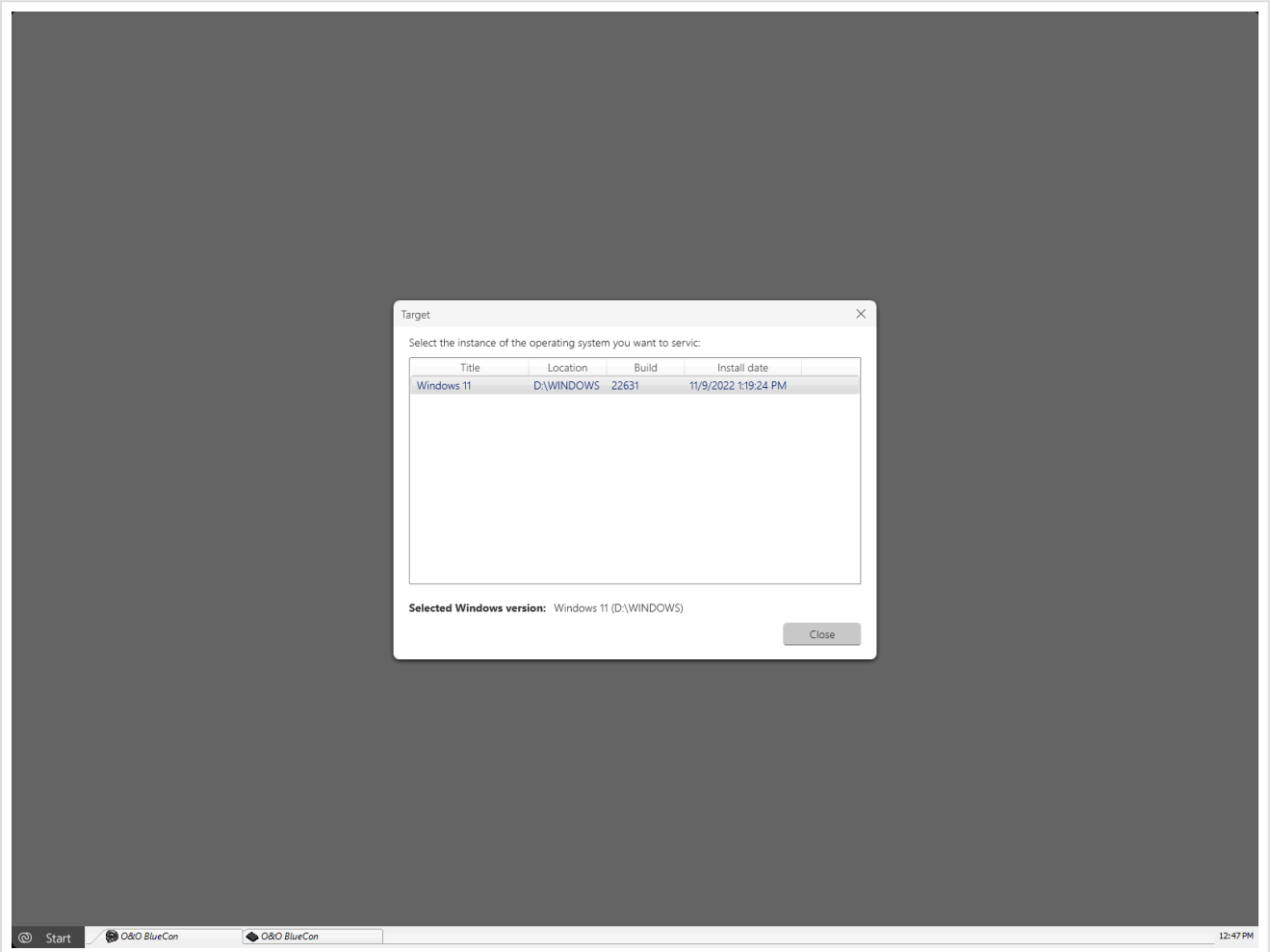
- To open the O&O Calc, click on **Start/Programs/Accessories/Calculator**.


O&O Calc
File Edit View Help
Hex Dec Oct Bin
Backspace CE CA
Start
O&O BlueCon
O&O BlueCon
O&O Calc
11:22

Control Panel

With the Control Panel you can set parameters, screen resolution, language and keyboard settings, time zones, enable the network and select the operating system. The last function is particularly important in cases where the target computer has several operating systems installed. This selection defines which system database O&O BlueCon should communicate with. All the O&O Program tools executing system-dependant information will automatically access the selected system. By using the Control Panel, it's possible to change the target system or enable the network retrospectively while the program is running.

- To open the O&O System Settings click **Start/Settings** and then **Control Panel**.



Load drivers

If a device like a hard disk or network card isn't automatically recognized when using the Start CD under Windows PE, it could be that a required driver for the controller (e.g., for RAID) is missing.

You can start loading a new driver immediately after inserting the Start CD using the dialog **O&O System settings** and the tab **Drivers**. You can also find this dialog at a later moment under **Start/O&O System settings/Drivers**.

Please follow these instructions for loading a new driver:

1. Open the tab **Drivers** in the dialog **O&O System settings** as described above.
2. All recognized Windows devices as well as all devices missing installed drivers will be displayed. Select a device for which you want to load a driver.
3. Click **Load**.
4. Select the desired driver such as one on a connected hard disk, USB Stick or CD*.
5. In the dialog, select **Open** to install the driver.
6. You'll then see a program message informing you about the status of the installation.

*Note: You can remove the Start CD from the drive in order to insert a driver CD from a manufacturer.

:::note

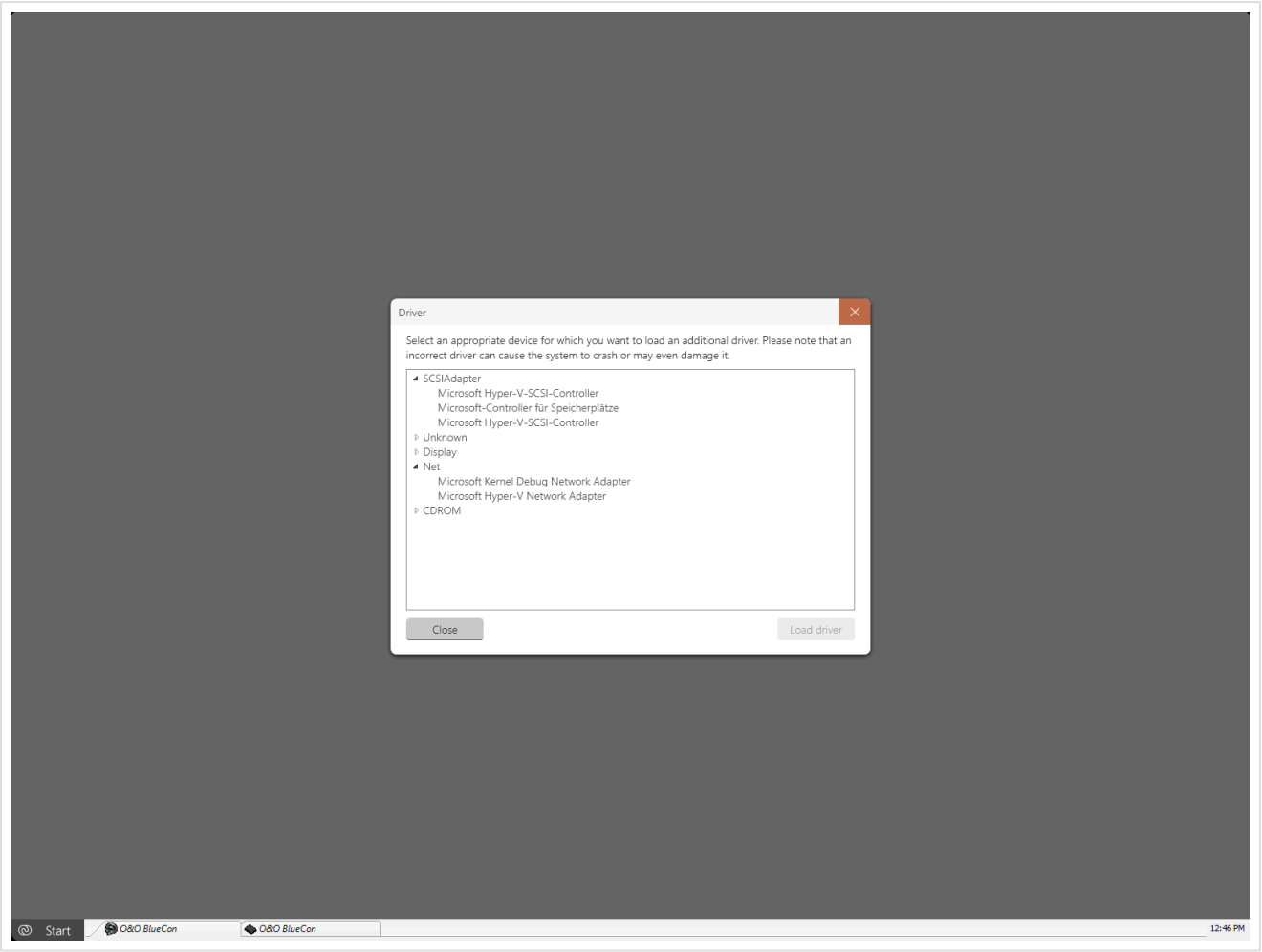
Under certain circumstances you may receive a message requiring you to restart if you have loaded an additional driver under Windows PE. This message is automatically generated by Windows PE but is irrelevant when starting from a CD. Simply decline the request and follow the further instructions in the pop-up window.

:::

:::note

Encrypted drives are not supported under Windows PE, except Bitlocker encrypted drives.

:::


Driver
Select an appropriate device for which you want to load an additional driver. Please note that an incorrect driver can cause the system to crash or may even damage it.
SCSIAdapter
Microsoft Hyper-V-SCSI-Controller
Microsoft-Controller für Speicherplätze
Microsoft Hyper-V-SCSI-Controller
Unknown
Display
Net
Microsoft Kernel Debug Network Adapter
Microsoft Hyper-V Network Adapter
CDROM
Close
Load driver
Start
O&O BlueCon
O&O BlueCon
12:46 PM

PowerShell command index

Microsoft PowerShell lets you control O&O BlueCon with scripting. The Command Index below lists all commands, their syntax and parameters. If you need help on a particular command, you can use the /? switch to display a short description of the syntax and the command's purpose.

attrib

Displays or changes file attributes. This command displays, sets, or removes the read-only, archive, system, hidden, and compressed attributes assigned to files or folders.

Syntax	**attrib [+ | -] [rash] [<Drive:>][<Path>][<filename>]**
Parameters	
<Drive:> <Path> <Filename>	Indicates the path and name of the folder, file, or files you want to edit.
+	Sets attributes.
-	Clears attributes.
r	Read-only file attribute.
a	Archive file attribute.
s	System file attribute.
h	Hidden file attribute.

cd

Displays the name of the current folder or changes the current folder.

Syntax	**cd [[<Drive:>]<Path> | ..]**
Parameters	
None	Used without parameters, cd displays the names of the current drive and folder.
<Drive:> <Path>	Indicates the drive (if different from the current drive) and folder to which you want to change.
..	Indicates that you want to change to the parent folder.
Example:	`C:\Windows\test>cd ..`

cls

Clears the screen. The cleared screen shows only the command prompt and cursor.

Syntax	**cls**
Parameters	None

copy

Copies one or more files to another location.

Syntax	**copy <Source> <Target>**
Parameters	
<Source>	Indicates the location and name of a file or group of files you want to copy. The name can consist of a drive letter and colon, a folder name, a filename or a combination of all these. You may use wildcards to indicate a group of files.
<Target>	Indicates the path to the folder where you want to copy something. The target can consist of a drive letter and colon, a folder name, a filename or a combination of all these.
Example:	`copy C:\test D:\test`

del

Deletes specified files.

Syntax	**del [<Drive:>][<Path>]<Filename>**
Parameters	
<Drive:> <Path> <Filename>	Indicates the path and name of the file you want to delete. You can use wildcards to indicate a group of files.
Example:	`del C:\test.txt`

deltree

Deletes a selected folder.

Syntax	**deltree [<Drive:>]<Path>**
Parameters	
<Drive:> <Path>	Indicates the path and name of the folder you want to delete. Subfolders and files in this folders will also be deleted.
Example:	`deltree C:\Windows\test\*.*`

device / service

Entering the command 'device' or 'service' launches the O&O DeviceManager, It displays all installed drivers and services. It is also possible to change the startup point. (see O&O DeviceManager)

dir

Displays a list of files and subfolders in one folder.

Syntax	**dir [/p] [<Drive:>][<Path>][<filename>]**
Parameters	/p
None	Used without parameters or switches, 'dir' displays the hard disk's name and serial number: one folder including the file extension per line, the file size in bytes, the total number of listed files, their cumulative size, and the amount of disk space on the drive(in bytes)that's still available.
/p	Displays one screen of the listing at a time. Press the space bar to display the next screen. Any other key cancels the process.
<Drive:> <Path>	Indicates the drive and folder you want to see listed.
<Filename>	Displays the file, providing it is in the selected folder. By using wildcards, it's possible to have a group of files displayed.
Example:	dir /p

edlin

Entering the command 'edlin' will launch the O&O Notepad. O&O Notepad is a basic text editor that allows you to view, edit and save text files. Files in ASCII and Unicode may be edited using O&O Notepad.

Exit

Closes Microsoft PowerShell.

Syntax	**exit**
Parameters	None

help

Lists all available commands with short descriptions. If you need help on a particular command, you can use the /? switch to display a short description of the syntax and the command's purpose.

Syntax	**help**
Parameters	None

info

Displays information about the file system and drives.

Syntax	**info { hdd | <Drive:> }**
Parameters	
Hdd	Displays information about available drives.
<Drive:>	Indicates the drive whose information (MFT location, cluster size, number of sectors, etc.) you'd like to see.

mkdir

Creates a folder or subfolder.

Syntax	**mkdir [<Drive:>]<Path>**
Parameters	
<Drive:>	Indicates the drive on which you want to create the new folder.
<Path>	Indicates name and path of the new folder. The maximum length of any single path is determined by the file system.
Example:	`mkdir C:\test`

passwd

Changes or removes the password for a user account.

Syntax	**passwd <User account> [<password>]**
Parameters	
<user account>	The user account whose password will be changed or removed.
<Password>	The new password for the user account. An empty password resets the current password, i.e. the password is deleted.
Example:	passwd administrator test

rename

Changes the name of a file. You cannot use the rename command to rename files across drives or to move files to a different folder location.

Syntax	**rename [<Drive:>][<Path>]<alt>[<Path>]<neu>**
Parameters	
<Drive:>	Indicates the drive where the name of the selected file should be changed.
<Path>	Specifies the location of the file to be renamed. The maximum length of any single path is determined by the file system.
<alt>	Indicates the name of the file you want to rename.
<New>	Indicates the new name for the file. The path is relative to the current path.
Example:	`rename C:\test\test.txt test1.txt`

rmdir

Deletes (removes) a folder.

Syntax	**rmdir [<Drive:>]<Path>**
Parameters	
<Drive:>	Indicates the drive where you want to delete the selected folder.
<Path>	Indicates the name and path of the folder that should be deleted. The maximum length of any single path is determined by the file system.

safeerase

Securely deletes files or drives.

Syntax	**safeerase [/<Security level>] [/output <File>] [/verbose] [/silent] [/help] [/showdisks] [/matchfile] [/matchfolder] [/matchall] [/volume <Drive>] [/disk <Hard disks#>] [/freespace <Drive>] [/y]**
Parameters	
None	Help text will be displayed.
/highestsecurity /highsecurity /mediumsecurity /lowsecurity /lowestsecurity	The available security levels. They refer to the deletion methods described. If no security level is chosen, the default is /highest security.
/output <File>	Saves the output additionally to a file.
/verbose	Detailed output will be shown.
/silent	Screen output will not be shown.
/help, /?	Help will be shown.
/showdisks	Displays drive and hard disk information. The disks will be numbered so that the numbers can be used with the command /disk.
/matchfile	Only matching files will be deleted. (Standard) Use the 'match' command in combination with a file filter (e.g. *.txt, a?c.exe)
/matchfolder	Only matching folders will be deleted.
/matchall	Matching files and folders will be deleted.
/volume <Drive>	Deletes the entire content of the drive.
/disk <Hard disks#>	Deleted the entire hard disk.
/freespace <Drive>	Deletes free space on the drive.
/y	All security checks will be suppressed.
Examples:	safeerase example.txt /output test.log – The text file is deleted with the highest security method and the output saved in the file test.log. safeerase /matchfile *.txt /silent /mediumsecurity – All text files in the current folder are deleted with the medium security level without output to screen. safeerase /freespace C: /verbose – The free space on C: is deleted with the highest security method and detailed output. safeerase /volume D: /y /lowsecurity - The content of the drive D: is deleted with a low security level and without security checks.

Syntax	**safeerase [/<Security level>] [/output <File>] [/verbose] [/silent] [/help] [/showdisks] [/matchfile] [/matchfolder] [/matchall] [/volume <Drive>] [/disk <Hard disks#>] [/freespace <Drive>] [/y]**
	safeerase /disk 0 - All partitions on the first hard disk are completely deleted. All parameters, apart from /help and /showdisks, can be combined with one another.

scopy

Copies one or more files to another location. If the files lie on an NTFS Drive, they retain the security and ownership attributes.

Syntax	**scopy <Source> <Target>**
Parameters	
<Source>	Specifies the path and name of a file or file group which will be copied from. <Source> can consist of drive name and colon, folder name, file name or a combination thereof. To specify a group of files, you may use wildcards.
<Target>	Indicates the path and name of a file or file group in which something will be copied. <Target> can consist of drive name and colon, folder name, file name or a combination thereof.

type

Displays the contents of a text file. Use the type command to view a text file without modifying it.

Syntax	**type [/p] [<Drive:>][<Path>]<File name>**
Parameters	
/p	Displays one screen of the listing at a time. To see the next screen, press any key. Press space bar to display the next screen. Any other key cancels the process.
<Drive:> <Path> <Filename>	Specifies the location and name of the file you want to view. If using long filenames and if the filename contains spaces, you must enclose the filename within quotation marks (") or use the short (8.3 style) filename.
Example:	`type C:\test\test.txt`

user

Displays a list of all local user accounts.

Syntax	**user**
Parameters	None

ver

Displays the version number of Microsoft PowerShell.

Syntax	**ver**
Parameters	None

vmap

Lists all mounted volumes, their mappings and additional information.

Syntax	**vmap**
Parameters	None

xcopy

Copies files and folders, including subfolders.

Syntax	**xcopy [/e] [/s] <Source> <Target folder>**
Parameters	
/e	Copies all subfolders, even if they are empty.
/s	If the files are located on an NTFS volume, security and ownership attributes will be preserved.
<Source>	Indicates the path and name of a file or file group from which you want to copy.<Source> can consist of a drive letter and colon, a folder name, a filename or a combination. To specify a group of files, you may use wildcards.
<Target folder>	Indicates the path where you wish to copy. Target can consist of a drive letter and colon, a folder name, a filename, or a combination.
Example:	`xcopy C:\windows\test\*.* D:\test`

Support and more from O&O

O&O Software support helps with questions and problems concerning O&O BlueCon 21.

Contact support

Open O&O Software support. Include:

- The version and edition of O&O BlueCon.
- The Windows version of the computer that creates the boot medium, and of the computer you repair.
- The manufacturer and model of the computer you repair.
- The complete error message, or the stop code of a blue screen.

Never send passwords. O&O support does not need them.

Licensing and updates

O&O BlueCon is commercial software. Which programs the boot medium contains depends on your license and edition. Information on the current version is available on the O&O BlueCon product page.

More from O&O

Product	Purpose
O&O DiskImage	Backup and recovery of drives and complete systems
O&O Syspectr	Remote monitoring and management of PCs and servers
O&O SafeErase	Secure, permanent deletion of files and drives
O&O Defrag	Storage optimization for PCs and servers
O&O ShutUp10	Control of the Windows privacy settings

See all O&O products.