Using Windows

Using Windows

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Windows Consideration

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Other topics about Using Windows

Using USB

The ENA has six USB ports for connecting devices: two in the front panel and four on the rear panel. The main advantages of USB are instant connect and disconnect, and faster data transfer speed. Electronic Calibration modules are now available with USB connections.

The first time you plug a device into a USB port there is some wait time. Windows reports it is identifying the hardware, then searching for the correct driver, then installing the driver (if it was found).

Connecting that same device back into that same port later is quick and easy, but if you move the device to a different USB port, you will have to wait through the hardware ID and driver search again.

> **NOTE**   Certain USB devices (such as ECAL modules) require you to be logged on with Administrator's privileges, the first time you plug them into the ENA. This must be done for each serial number. Click **Next** to choose the default settings when installing new USB devices.

Plug & Play Stability and Security

Plug & Play capabilities provide both a stable and secure operating environment. You may notice also that it greatly reduces the number of required reboots.

LAN Connections

Windows supports DHCP and fixed IP addressing. Also, instant connect and disconnect of the LAN cable, as well as a visual indicator of LAN status in system tray area, makes LAN connections more intuitive. In addition, the Hardware Wizard helps users with system hardware configuration.

Single and Double Click option

By default, Windows allows a double-click method of launching icons. To revert to single-clicking, see the Windows help.

Printing

Adding a printer should be done as Windows operation. See Connecting Printer.

Windows License

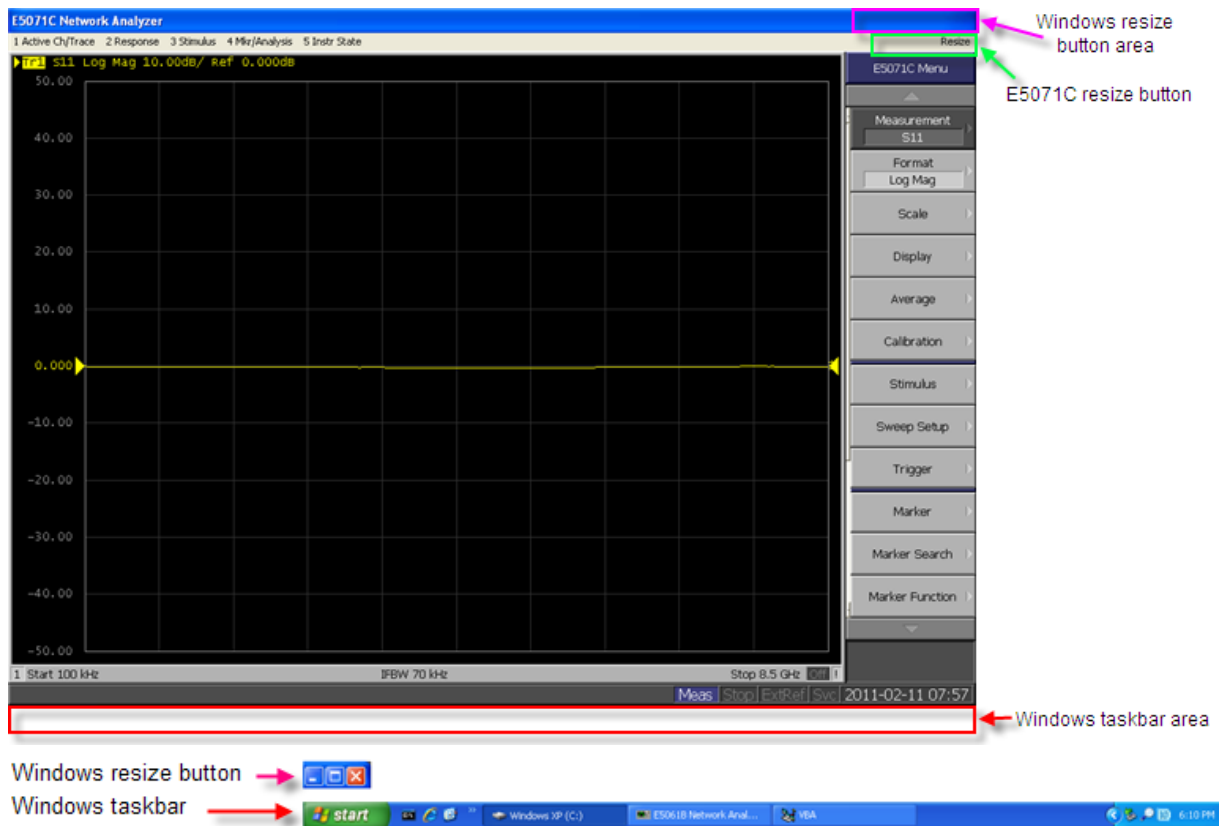There are differences in Windows display depending on the HDD revision and firmware revision.

HDD revision

- CFxxx:
    - The license label at rear panel is Windows XP Pro for Embedded Systems.
    - The Windows task bar is no longer shown at the bottom of the screen.
- CNxxx:
    - The license label at rear panel is Windows Vista Business.
    - The Windows task bar is shown at the bottom of the screen.

Firmware revision

- A.09.7x and above:
    - The Windows resizing buttons are no longer appear at the upper-right of the Windows titlebar. It is replaced with E5071C resize button at the upper-right of the channel titlebar, as shown in the following figure:

- A.09.6x and below:

    - The Windows resizing buttons are shown at the upper-right of the Windows titlebar. There is no E5071C resize button at the upper-right of the channel titlebar.

Windows resize button area

E5071C resize button

Windows taskbar area

Windows resize button

Windows taskbar

Change Date/Time Settings

The E5071C has the built-in clock that keeps track of the date and time. This clock is used for the following functions.

- To display the current date and time in the instrument status bar at the lower part of the screen

- To write date and time information when saving internal data or a VBA program

  - The **Date & Time** of E5071C clock can be changed by double-clicking the clock on the bottom right of the taskbar.

Other topics about Using Windows

User Account and Password

- [Default Settings of User Account and Password](#)
- [To Add Password](#)
- [To Change Password](#)
- To Add New User

Default Settings of User Account and Password

The default settings for user account and password defers according to the HDD revision. If you are using E5071C with HDD revision CN96x and below, at initial registration setup, the account name is set as **agena** but the password is not set and Auto Log On is activated. You may [create a password](#) for this account or [add a new user](#).

If you are using E5071C with HDD revision CF1000 and above, you will find that at the factory default setting, the account name is **Instrument**, the password is **measure4u**, and Auto Log On is activated. Refer [to change password](#).

To know E5071C HDD revision, refer to checking the HDD revision.

> **NOTE** For all accounts, password is not mandatory.

To Add Password

1. Open **User Accounts** in Control Panel.
2. Click **Change an Account**.
3. Select your account name.
4. Click **Create a password**.
5. Enter **new password**, and **password hint**.
6. Click **Create password** button.

To Change Password

1. Open **User Accounts** in Control Panel.
2. Click **Change an Account**.
3. Select the icon of your account name.
4. Click **Change the password**.

5. Enter **new password**, **new password again to confirm**, and **password hint**.

6. Click **Change password** button.

> **NOTE**   When the password of the account being logged in is changed, the above procedure is little different.

To require users to press CTRL+ALT+DELETE before logging on

For added security, you can require users to press CTRL+ALT+DELETE before logging on.

1. Open **User Accounts** in Control Panel.

2. Click **Change the way users log on or off**.

3. Check out **Use the Welcome screen**.

4. Click **Apply Options**.

5. Log off Windows.

> **NOTE**   The E5071C must be removed from the domain for the procedure to work. When shipped, the E5071C is configured as a member of a workgroup. If the configuration of the E5071C is later changed so as to be a member of domain, then name/password must always be entered at startup. This is a security requirement of Windows.

> **NOTE**   If ENA is assigned to a domain, then **Change the way users log on or off** will not be available in **User Accounts** dialogue box.

To Add New User

Accounts must be the computer administrator if you make measurements.

1. Open **User Accounts** in Control Panel.

2. Click **Create a new account**.

3. Type the new account name, then click **Next**.

4. Select **Computer Administrator**.

5. Click **Create Account**.

6. Select the icon of your account name.

7. Click **Change password**.

8. Enter **new password**, **new password again to confirm**, and **password hint**.

9. Click **Change password** button.

NOTE   The administrator authority is necessary for some of function in E5071C. Select computer administrator when you make the user account.

On-Screen Keyboard

- On-Screen Keyboard overview
- To open Windows On-Screen Keyboard

Other topics about Using Windows

On-Screen Keyboard overview

On-Screen Keyboard is a utility provided by Windows that displays a virtual keyboard on the screen. It allows the users of the E5071C to input characters without the need of a keyboard.

> **NOTE** The E5071C does not requires an external keyboard for its operation. Users can input characters using an on-screen keyboard in-built with the E5071C firmware.

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To open Windows On-Screen Keyboard

To open On-Screen Keyboard: click **Start** > **All Programs** > **Accessories** > **Accessibility** > **On-Screen Keyboard**.

Configuring Network

> **NOTE** When you use the E5071C by connecting it to your LAN, consult your network administrator and make the setting of the LAN correctly.

This section describes how to set the following basic items necessary to connect the E5071C to the LAN (Local Area Network).

- Enabling/Disabling network
- Check/Reset IP Address
- Setting IP address
- Specifying computer name

If you need detail network settings, consult your network administrator and perform operation in the same way as the Windows PC.

Other topics about Using Windows

Enabling/Disabling Network

You can enable/disable the network connection function of the E5071C.

To enable/disable the network connection function

1. Use the LAN cable to connect the E5071C to the LAN.

2. Press **System** > **Misc Setup** > **Network Setup** > **Network Configuration** to open **Network Connections** window.

3. Perform either of the following:

- When switching from disable to enable:

Double-click the Local Area Connection icon in the **Network Connections** window to enable the network connection function.

- When switching from enable to disable:

Double-click the Local Area Connection icon in the **Network Connections** window. The **Local Area Connection Status** screen appears. Click the **Disable** button to disable the network connection function.

4. Close **Network Connections** window.

Check/Reset IP Address

The IP address of the E5071C can be checked/reset by **System** > **Misc Setup** > **Network Setup** > **LAN Dialog**.

Setting IP address

E5071C

Follow these steps to set the IP address:

1. Press **System** > **Misc Setup** > **Network Setup** > **Network Configuration**

2. Double-click the Local Area Connection icon in the **Network Connections** window. The **Local Area Connection Status** screen appears.

3. Click **Properties**. The **Local Area Connection Properties** screen appears.

4. Select (highlight) **Internet Protocol (TCP/IP),** and then click **Properties**.

5. The **Internet Protocol (TCP/IP) Properties** appears. Click (select) **Use the following IP address** and then enter the **IP address**, **subnet mask** and **gateway address**.

6. If the IP address can be obtained automatically (if the DHCP server can be used), click (select) **Obtain an IP address automatically**.

7. In **Internet Protocol (TCP/IP) Properties**, click **OK**.

8. In **Local Area Connection Properties**, click **OK**.

9. In **Local Area Connection Status**, click **Close**.

10. Close **Network Connections** window.

Specifying Computer Name

Follow these steps to specify the computer name:

1. Press **System** > **Misc Setup** > **Network Setup** > **Network Identification**.

2. Enter the desired computer name in Computer description in **Computer Name** tab.

3. Click **OK**.

Accessing Hard Disk of E5071C from External PC

If you connect the E5071C to LAN, you can access the hard disk (D drive) in the E5071C as a network drive from an external PC connected to the same LAN.

- Enabling the access from an external PC
- Accessing hard disk of E5071C from external PC
- E5071C Hard Disk Drive

Other topics about Using Windows

Enabling the access from an external PC

This section shows the procedure to enable the access from the external PC.

1. Press **Save/Recall** > **Explorer** which opens the explorer.
2. Select (highlight) **USER (D:)** and then click **Properties** in the File menu. The USERS(D:) Properties dialog box appears.
3. Select the **Sharing** tab.
4. Click **New Share.** The New Share dialog box appears.
5. Enter the share name (name used when accessed from the external PC) in the **Share Name** box and click **OK** .
6. In the USERS(D:) Properties dialog box, click the **OK** button.

Accessing hard disk of E5071C from external PC

This section describes the procedure to connect to the hard disk (D drive) in the E5071C to which access has been made possible according to the procedure described in Enabling the access form the external PC from the external PC, taking Windows as an example.

> NOTE   For information on connection, see your PC's operation manual.

1. Right-click start menu, then select **Explorer** to start the explorer.
2. From the Explorer's menu, click **Tools** > **Map Network Drive..** The Map Network Drive dialog box appears.
3. Select an appropriate drive, enter **\\C_NAME\S_NAME** as the network path and then click the **OK** button.

4. The dialog box to enter the user name and the password appears. Enter an appropriate user name and password and then click the **OK** button.

> **NOTE** **C_NAME** in the network path is the computer name of the E5071C and **S_NAME** is the share name of the D drive. For information on how to set the computer name, refer to Specifying computer name; for information on how to set the share name, refer to Enabling the access from an external PC.

> **NOTE** The user name and password differ depending on the setting made when enabling access from the external PC. When you have set them according to Enabling the access from an external PC you can make connection using the user name and the password.

E5071C Hard Disk Drive

The E5071C Hard disk contains several memory partitions. The following table explains the different partitions of the E5071C.

Drive	Description
CNxxx (C:) or CFxxx (C:)	The system drive is replaced with the original image when system recovery is executed.
USER (D:)	User can keep their files, in this drive. This drive is not replaced even when system recovery is executed.
RECOVERY (E:)	This drive contains license information and back up data for syscal. Also,user can keep their files, in this drive. The drive is not replaced even when system recovery is executed.
SWAP (F:)	This folder is for system recovery. User cannot use this drive.

Windows Firewall

To turn Windows Firewall on or off

1. Open Windows Firewall.

2. On the General tab, click one of the following:

   - **On (recommended)**. This is the setting that you should normally use.

   - **Off (not recommended)**. Turning off Windows Firewall might make your computer (and your network, if you have one) more vulnerable to damage from viruses.

   NOTE   To open Windows Firewall, open Control Panel, and then double-click **Windows Firewall**.

Other topics about Using Windows

Disabling-Enabling USB Mass Storage Device

You can disable/enable any USB-compatible external mass storage devices in order to ensure confidentiality or for other reasons.

- To disable a USB Mass Storage Device
- To enable a USB Mass Storage Device
- To disable write access to USB Mass Storage Device

Other topics about Using Windows

To disable a USB Mass Storage Device

1. Press **Save/Recall** key.

2. Press **Explorer...**.and navigate to **D:\Agilent\Service**.

3. Double-click **DisableUsbStorage.exe**

4. Click **OK** in the SUCCEEDED message window that appears. If any USB mass storage device is connected to the E5071C under this condition, the Hardware Wizard will start, but the USB mass storage device will not work.

To enable a USB Mass Storage Device

1. Press **Save/Recall** key.

2. Press **Explorer...**.

3. Double-click **EnableUsbStorage.exe** from **D:\Agilent\Service**.

4. Click **OK** in the SUCCEEDED message window that appears.

> **NOTE** If you do not want any USB mass storage device to ever be enabled at any time, delete **EnableUsbStorage.exe** from the E5071C after **DisableUsbStorage.exe** has been completed. These two programs will not be recovered automatically by applying the firmware update or other such action. Before deleting any of these programs, you should make a backup copy to a recording medium such as a USB memory and store it separately.

> **NOTE** If the program fails to run, it is possible that you have not logged in as a user in the Administrators Group. When you want to execute any of the above programs, make sure to log in as a user in the Administrators Group.

To disable write access to USB Mass Storage Device

1. Press **Save/Recall** key.

2. Press **Explorer...**.

3. Double-click **ReadOnlyUsbStorage.exe** from **D:\Agilent\Service**.

4. Click **OK** in the SUCCEEDED message window that appears.

    NOTE   The **ReadOnlyUsbStorage.exe** does not allows you to save the file into USB memory from ENA HDD.

Connecting External Accessories

The E5071C can be connected to external input/output devices such as printer, monitor, keyboard and mouse using any of the serial or USB ports provided in the rear or the front panel.

- Connecting a Printer
- Connecting a Mouse
- Connecting a Monitor
- Connecting a Keyboard

Other topics about Using Windows

Connecting a Printer

A printer can be connected to the E5071C using the Universal Serial Bus (USB) ports provided in the front or rear panel.

Connecting a Mouse

A mouse can be connected to the E5071C through the Universal Serial Bus (USB) ports provided in the front or rear panel.

Connecting a Monitor

A monitor can be connected to the E5071C using the External Monitor Output Terminal (Video) located in the rear panel of the E5071C.

> **NOTE** An external monitor needs to be connected to the analyzer and turned on before the analyzer is turned on so that the analyzer recognizes the monitor properly.

Connecting a Keyboard

A keyboard can be connected to the E5071C through the Universal Serial Bus (USB) ports provided in the front or rear panel.