Lookout™ Release Notes

Version 6.2

National Instruments Lookout is a human machine interface (HMI) and supervisory control and data acquisition (SCADA) software system. These release notes contain system requirements, installation instructions, activation instructions, and information about new features in Lookout 6.2.

If you want to upgrade Lookout from Lookout 5.*x* or earlier, refer to the National Instruments Web site at `ni.com/info` and enter the info code `exd569` for information about upgrading Lookout from the earlier versions.

Refer to the `readme.html` file in the `lookout\Documentation` directory for information about known issues with Lookout 6.2.

Contents

System Requirements 2
Installing Lookout 3
Activating Lookout 3
    Activating the Lookout License 4
    Activating the Lookout Client Connection 4
What's New in Lookout 6.2 5
    Controlled Expressions 5
    Find Displays Window 5
    Client Connection Monitor Window 5
    NI OPC Servers Integration 6

NATIONAL INSTRUMENTS™

System Requirements

Lookout has the following minimum system requirements:

- A minimum of a Pentium III or greater or Celeron 866 MHz or equivalent PC processor. National Instruments recommends a Pentium 4/M or equivalent processor.
- A minimum of 256 MB of RAM. National Instruments recommends 512 MB of RAM.
- A minimum of 700 MB free disk space, plus more to store the amount of historical data you intend to log to the Citadel storage system. National Instruments also recommends that you have 1.5 GB of free disk space for file swapping.
- Windows Vista, Windows XP Service Pack 2, or Windows 2000 Service Pack 4. Lookout does not support Windows Me/9*x*/NT.
- Internet Explorer 6 Service Pack 1 or later.
- Microsoft Data Access Components (MDAC) 2.8 SP1 or later.
- A minimum screen resolution of 800 × 600 pixels. National Instruments recommends a screen resolution of 1,024 × 768 pixels.

Note The performance of Lookout depends on the number, size, and complexity of the processes you run. While the minimum requirements are sufficient for some processes, you might need to use more powerful computer configurations for complex and data-intensive applications.

If you want to use the networking capabilities of Lookout, you must have a network card installed on the computer and have the computer properly set up on a network with TCP/IP protocols. You also must be able to ping any computer on the network that you intend to have as a part of the Lookout network. To test if a computer is on the Lookout network, access a command prompt and enter the following command:

`Ping` *`compname`*

where *`compname`* is the name of the computer you want to ping.

If TCP/IP is working properly on the computer, you receive a response similar to the following example:

```
Pinging compname [123.45.67.89] with 32 bytes of data:
Reply from 123.45.67.89: bytes=32 time<10ms TTL=128
Reply from 123.45.67.89: bytes=32 time<10ms TTL=128
Reply from 123.45.67.89: bytes=32 time<10ms TTL=128
Reply from 123.45.67.89: bytes=32 time<10ms TTL=128
```

If TCP/IP is not working properly on the computer, consult the system administrator. Refer to the *Lookout Help,* available by selecting **Start»All Programs»National Instruments»Lookout *x.x*»Lookout Help**, for more information about networking and network configuration with Lookout.

Installing Lookout

National Instruments recommends that you install Lookout 6.2 on a clean computer without previous versions installed to obtain maximum stability. If you must install Lookout 6.2 and a previous version on the same computer, do not run the two versions of Lookout at the same time.

Note If you plan to use the networking capabilities of Lookout, verify that TCP/IP is working properly on all the computers you intend to use before you install Lookout.

Complete the following steps to install Lookout:

1. Insert the Lookout DVD.
   - If the computer has the AutoPlay feature enabled, the **Lookout Setup** window appears. Click **Install Lookout** to start the installation.
   - If the computer does not have the AutoPlay feature enabled, navigate to *x*:\Lookout, where *x* is the letter of the DVD-ROM drive, and run the `setup.exe` program to start the installation.
2. Follow the instructions on the screen.
3. Activate Lookout. Refer to the *Activating Lookout* section of this document for more information about activating Lookout.
4. Restart the computer.

Activating Lookout

Lookout relies on licensing activation. You have a temporary license for a 30-day evaluation period. If you do not activate the Lookout license, Lookout runs in evaluation mode for a 30-day period. During the evaluation period, you can use only 50 I/O points and one client connection. When the evaluation period expires, you must activate a valid Lookout license to continue using Lookout. Activating Lookout includes the following two actions:

- Activating the Lookout license
- Activating the Lookout Client Connection

Activating the Lookout License

To activate the Lookout license, use the serial number you received as part of the installation package. Activate the Lookout license in any of the following ways:

- During installation, enter the serial number and select to run the **NI Activation Wizard** at the end of installation.
- After you launch Lookout in evaluation mode, follow the steps in the **NI Activation Wizard**. If Lookout does not run this wizard, click the **Activate Lookout** button in the **Lookout - Unlicensed Version** dialog box to run this wizard.
- Select **Options»System** while running Lookout in evaluation mode to display the **System Options** dialog box, and then click the **Activate Lookout** button to run the **NI Activation Wizard**. The license activation does not take effect until you restart Lookout.
- Select **Start»All Programs»National Instruments»NI License Manager** to launch NI License Manager. The license activation does not take effect until you restart Lookout.

If the activation fails, Lookout remains in evaluation mode until the 30-day evaluation period expires.

Activating the Lookout Client Connection

Activate the Lookout Client Connection in either of the following ways:

- Select **Start»All Programs»National Instruments»NI License Manager** to launch NI License Manager. The license activation does not take effect until you restart Lookout.
- In Lookout, select **Options»System** to display the **System Options** dialog box. Click the **Activate Client Connection** button to run the **NI Activation Wizard**. The activation does not take effect until you restart Lookout.

If you do not activate the Lookout Client Connection, you cannot connect to Lookout on the local computer through Lookout clients on other computers on the same network.

What's New in Lookout 6.2

This section contains information about the new features and changes in Lookout 6.2. Refer to the *Lookout Help* for detailed information about the new features and changes.

Controlled Expressions

A controlled expression is an expression with a trigger. A trigger is a logical data member. Lookout calculates a controlled expression only when a trigger changes from FALSE to TRUE. Lookout does not calculate this controlled expression when the trigger changes from TRUE to FALSE.

For example, the following expression is a controlled expression.

```
Exp1 = Pot1 + 1
Exp1.trigger = Switch1
```

In this expression, `Switch1` is the trigger. When `Switch1` changes from FALSE to TRUE, Lookout calculates the expression `Pot1 + 1` and returns the result. If the value of `Pot1` changes, Lookout does not calculate this expression until `Switch1` changes from FALSE to TRUE again.

Find Displays Window

Use the **Find Displays** window to view and locate displays of local objects, remote objects, and object data members. The **Find Displays** window lists the object name, source member name, and location information.

Client Connection Monitor Window

Use the **Client Connection Monitor** window to view connections between the local Lookout server and clients. On the server machine, select **Options» Client Connection Monitor** to display the **Client Connection Monitor** window.

To use this window, the security level of the login user must be 9 or higher. You can set the security level for users and groups by modifying the user and group accounts.

NI OPC Servers Integration

Lookout 6.2 provides the NI OPC Servers application. Use this application to connect to OPC devices. After you activate the Lookout license, you also activate the NI OPC Servers application.

Refer to the *NI OPC Servers Help*, available by selecting **Start»All Programs»National Instruments»NI OPC Servers»NI OPC Servers Help**, for more information about using the NI OPC Servers application.

National Instruments, NI, ni.com, and LabVIEW are trademarks of National Instruments Corporation. Refer to the *Terms of Use* section on `ni.com/legal` for more information about National Instruments trademarks. Other product and company names mentioned herein are trademarks or trade names of their respective companies. For patents covering National Instruments products/technology, refer to the appropriate location: **Help»Patents** in your software, the `patents.txt` file on your media, or the *National Instruments Patent Notice* at `ni.com/patents`. In regards to components that use Citadel 5, the following copyright applies. Copyright © 1994 Hewlett-Packard Company.

© 1999–2008 National Instruments Corporation. All rights reserved.

371384C-01 Aug08