Installing the Single or Multi-License Dongle Software

The dongle software is installed when the badging software is installed. There are 4 possible scenarios for installing the dongle software, depending upon how you intend to use the badging software.

1. **Standalone**

   The dongle and badging software are to be installed at the same computer and the software will be run from the computer's keyboard and screen. In this case, install the software using the default installer settings and attach the dongle when the installation is completed.

2. **Combined Terminal Server/Dongle License Server**

   You plan to install the dongle and badging software on a computer that will be accessed from other computers on the network as a Terminal Server. This computer will also be used as the Dongle License Server. At the **Select Components** screen in the software installer, also check **Network Dongle License Server**. This will install a service on the computer that will provide access to the software license(s) via the Local Area Network (LAN).

3. **Terminal Server with a Dongle License Server Elsewhere**

   You plan to install the badging software on a computer that will be accessed from other computers on the network as a Terminal Server. The dongle will be installed on a Dongle License Server computer elsewhere. In this case, install the software using the default installer settings at the Terminal Server, and then perform the Dongle License Server installation below (if not already performed) at the Dongle License Server (see 4 below).

4. **Dongle License Server**

   You plan to install one or more copies of the badging software on computers on the LAN or Internet or Terminal Server, but install the dongle on a separate Dongle License Server connected the LAN or Internet. At the badging station computers, install the software using the default installer settings. At the Dongle License Server (which may be on the LAN the computers are connected to, or on the Internet), select **Network Dongle License Server Only** on the **Select Components**

screen. Once the software has installed, the dongle can be attached. See below for details on how to a access a Dongle License Server via the Internet.

Monitoring License Use

When the Network Dongle License Server is installed, the usage of licenses can be monitored via a web browser. If the browser is running on the same computer as the Network Dongle License Server, then use the address http://localhost:6002. If the browser is running elsewhere on the LAN, use http://xxx.xxx.xxx.xxx:6002, where xxx.xxx.xxx.xxx is the IP of the Network Dongle License Server.

Multi-License Dongles

Standard dongles only provide one license, and therefore only allow one copy of the program to operate at a time. This is true whether or not it is accessed via a Network Dongle License Server.
Multi-license dongles are also available. To be effective, these have to be used in conjunction with a Network Dongle License Server. Such dongles will allow as many copies of the program to run at different computers or terminal servers, as defined in the dongle. A multi-license dongle has a maximum number of licenses it can contain. Dongles are available with different maxima. Each dongle is initially programmed with a number of licenses less than or equal to this maximum. When less than, the number can be increased via field re-programming of the dongle.

Multiple Dongles on a Single Network Dongle License Server

A Network Dongle License Server can have more than one dongle attached to it. It will serve licenses from the dongles until the sum total of licenses issued exceeds the total number of licenses available in all the dongles.

Setting up Access to a Dongle License Server

If the Dongle License Server (DLS) is on the same Local Area Network (LAN) as the computer running the badging software, then no specific set-up is needed at

the badging station to access the DLS. The badging security system uses a broadcast system to determine where any DLS systems are located. Note that it will find any DLS on the LAN that has a valid dongle and available licenses.

If the DLS is not on the LAN, or if you would like to direct LAN requests to a particular server, then you can define the IP address that the badging station should use to locate a license. This can be done on either of two ways; one is by setting an environment variable and the other is to edit an XML file.

It may be desirable to use this technique even on a LAN, as it eliminates the requirement for broadcast messages and can speed up access to the DLS.

To set up the badging station to point to a specific DLS, use either one of these methods (if you use both, method 2 will take precedence):

1. **Environment Variable**

   Set the environment variable NSP_HOST to the IP address or domain name of the DSL. If you use a domain name it must be resolvable to an IP. On most Windows® systems an environment variable is set using these steps:

   Go to **Control Panel**

   Select **System**

   Select the **Advanced** tab

   Click the **Environment Variables** button

   In the **System Variables** section click **New**

   In the **Name** box enter **NSP_HOST**

   In the **Value** box enter the IP or domain name of the DSL

   Click **OK** as needed to complete the operation

   You may need to have **System Administrator** privileges to complete this process.

2. **XML Configuration File**

   This file is called **SNTLCONFIG.XML** and is located in the same directory as the badging program executable is located. This is normally in the **Program Files** folder on drive **C** under **Badging**. If you move it from the installed location it will not provide the desired functionality. It is necessary to edit this file to add the IP or domain name of the DSL server

and **System Administrator** privileges may be necessary to accomplish this. Edit this file using a simple editor program such as **NOTEPAD** and put the IP or domain address of the DSL between the <AccessMode></AccessMode> tags. For example:

        <AccessMode>
        123.456.789.123
        </AccessMode>
or
        <AccessMode>
        mydongleserver.mydomain.com
        </AccessMode>

It is not necessary to enter data anywhere else in this file. However, if you have a poor or slow Internet connection then you may wish to try a longer heartbeat time by setting a suitable value between the **HeartBeat** tags. The default is 120 seconds. A symptom that this might be necessary is if the badging software loses access to the DSL during normal operation.

The DSL is accessed using port 6001 and the UDP protocol. When the software is installed on the DSL a hole in the Windows firewall is automatically created for this service. But if there are any intervening firewalls between the badging station and the DSL then access to that port using that protocol must be provided.