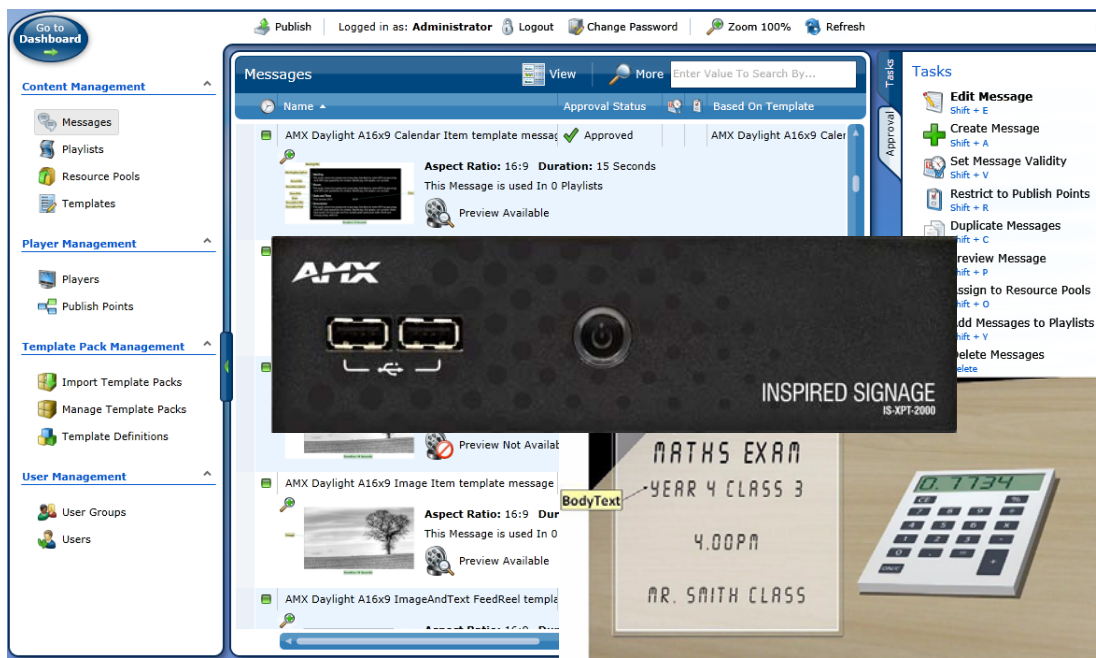




Installation/Reference Guide

IS XPert

IS-XPT-2000 Player Hardware Installation
Initial System Setup



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Inspired Signage

Overview

IS XPert is a simple, ready to deploy, signage solution that enables you to get the benefits of a full digital signage system, without the need for consultancy or design services.

Inspired Signage - Components

The following software applications and hardware components comprise the *IS XPert* solution (FIG. 1):

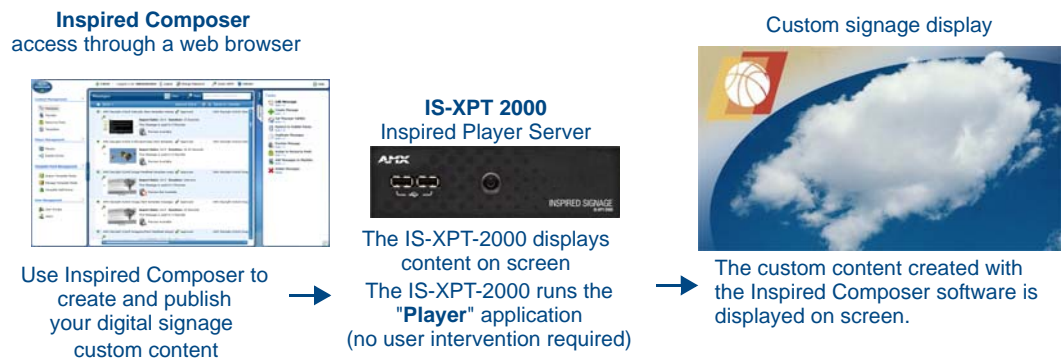


FIG. 1 IS XPert - Components

Inspired Composer Software Application

Inspired Composer is the content management application, it is installed on a Windows-based desktop or server and accessed through a web browser, either directly in the case of the desktop version, or via a network. (FIG. 2).

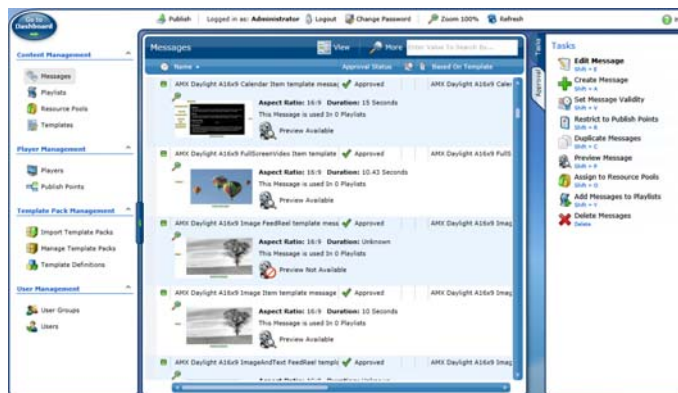


FIG. 2 Inspired Composer Web Application

Inspired Composer provides several key functions:

- It allows end users to create, customize and publish content
- It allows Administrators to manage Users and User Groups as well as pools of content called Resource Pools.
- It allows Administrators to manage a collection of Players.
- It allows Managers/Administrators to approve content and playlist changes made by end users.

Composer allows you to take Templates created by AMX's Graphic Design team, and create Messages from these Templates, with your own customized media and data. These Messages are then added to Playlists and published to the relevant Players, so that the new content can be displayed on screen. Typically one Message corresponds to one digital sign. Composer can control a large number of Playlists, each with its own set of Messages.

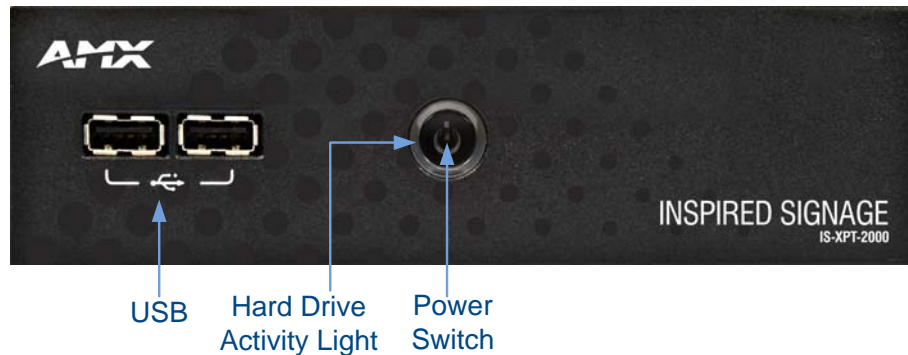
IS-XPT-2000 ("Player")

Overview

The IS-XPT-2000 Inspired Player Server ("Player") is a self-contained solution for Inspired Signage software that delivers content to a display. The Player runs the *Babel* and *Player* applications.

See (FIG. 3) below which displays the different connections offered by the Player.

Front



Back

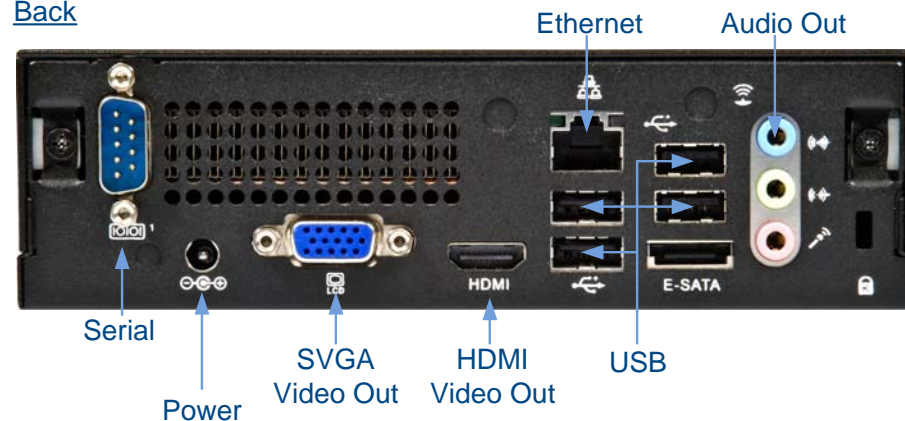


FIG. 3 IS-XPT-2000 Inspired Player Hardware

Features

- High-definition video output at up to 1080p
- Small size - 6.54" x 1.89" x 6.46" (16.6 cm x 4.8 cm x 16.4 cm)
- Serial port screen control



NOTE

The Player can output HDMI video or VGA video but not both at the same time.

Compatibility

Warning, this Player is only compatible with Composer 4.8 or higher. You can see the version of Composer you are running to the right of the word Composer in the blue status bar at the top of the main Composer screen.

Important Safety Markings



Power supply cords shall have conductors with cross-sectional areas sufficient for the rated current of the equipment.

Conductors shall be sized based on the requirements in the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, CSA C22.1.

The length of a power supply cord shall not exceed 4.5 m.



**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**

Product Specifications

IS-XPT-2000 Product Specifications	
Models Available:	IS-XPT-2000 (FG1232-01)
Dimensions (HWD)	6.54" x 1.89" x 6.46" (16.6 cm x 4.8 cm x 16.4 cm)
Weight	2.85 lbs (1.3 kg)
Power	100-240VAC, 1.5A, 50/60Hz 90W (20V, 4.5A) AC Adapter
Environment	Operating Temperature : 0 ~ 50°C (32 ~ 122°F) Storage Temperature : -30 ~ 60°C (-22 ~ 140°F) Relative Humidity : 90% RH (45°C non-Condensing)
Enclosure	SECC with black matte finish
Operating System	POSReady 2009
Front Panel Components	
Status	Blue LED indicates power status and hard drive activity
Power Switch	Turns power on/off. Note: This is a "soft switch": flipping the switch while the Player is running issues a shutdown request.
USB Ports	2 Type-B USB 2.0 Ports for connecting USB mouse and keyboard. Note: The Player is designed to be used without a keyboard and mouse; they are only required for maintenance.
Rear Panel Components	
Power Connector	90W (20V,4.5A) AC Adapter <i>Input Voltage AC 100-240V</i> Note: Isolate IT Power System Connection.
USB Ports	4 Type-B USB 2.0 Ports.
Ethernet Port	RJ-45 Ethernet port provides Gigabit Ethernet communication between the Player and the Controller PC (which runs the <i>Inspired Composer</i> application). Connect the Ethernet port to the LAN
Audio Out	Provides stereo audio output Note: The Audio in (blue) and Microphone (red) connectors are not used.
Serial Port	Provides serial control over devices which support RS232 commands
HDMI Video Out	Provides HDMI video output to the display, via an HDMI cable. Note that the Player cannot display VGA and HDMI at the same time, you must choose one or the other
VGA Video Out	Provides VGA video output to the display. Note: that the Player cannot display VGA and HDMI at the same time, you must choose one or the other

e-SATA	Reserved for future use
Certifications	CE, FCC, UL, CB
Included Accessories	One power adaptor

Player Configuration

Overview

This section describes how to use the web based Player Configuration tool to configure the IS-XPT-2000. When you first turn the Player on you will see the Player diagnostic screen, see FIG. 4, which shows the most important information about the Player: the network, display and Netlinx settings. Netlinx settings allow you to control the content displayed on the Player using a Netlinx controller

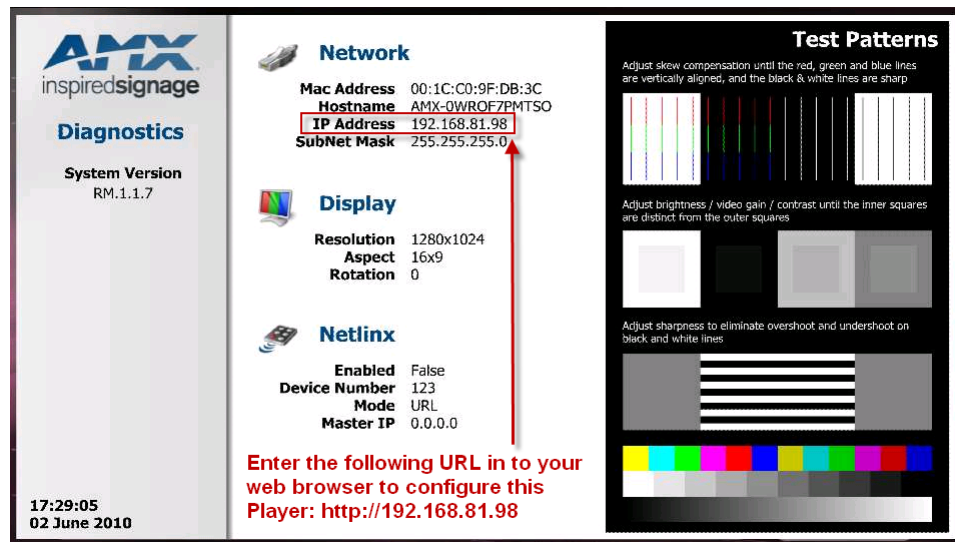


FIG. 4 Default Player Screen - Diagnostic Screen with Player IP Address

Connect to the Player Web Configuration Tool to configure the Player using the IP address on the Player diagnostic screen by entering the following URL into Internet Explorer: **http://<Player IP>**, for example, **http://192.168.81.98**. Note you will need to download the Microsoft Silverlight plugin from the internet **http://www.microsoft.com/getsilverlight/Get-Started/Install/Default.aspx** to use the Web Configuration Tool (if it is not already installed). Note, this download will take place automatically when you first access the Web Configuration Tool. Make a note of the Player IP address for future reference as you can use this IP address when configuring the Player in Composer.

Once you connect to the Web Configuration Tool, a wizard will guide you through configuring the new Player. The Player Configuration Wizard consists of three pages:

- Screen - Player display settings e.g. display resolution
- Network - Player Network settings
- Language - Player Date/Time and Locale settings

Complete each page and click **next** to continue to the next page. These pages are described in detail below

Screen Resolution, Aspect Ratio, and Rotation Setting

The first page of the wizard is the screen configuration page, see FIG. 5.

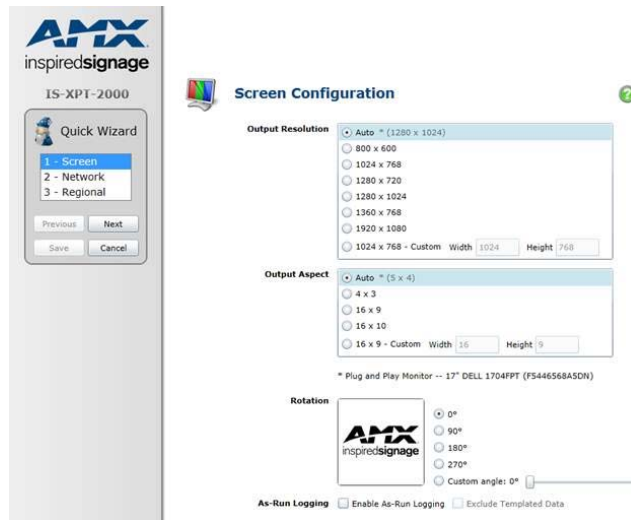


FIG. 5 Screen Configuration

1. The Player will attempt to select the best resolution for the attached display using the EDID (Extended Display Identification) system. If your display does not support EDID or if you wish to use a different resolution you can select an *output resolution* from the standard resolution options provided in the **Output Resolution** drop-down menu.
 - If you want to specify a custom output resolution, select **Custom** from the menu. With *Custom* selected, the **Custom Width** and **Custom Height** fields are enabled. Enter the desired resolution (width and height in pixels).
2. The Player will attempt to select a suitable aspect ratio for the attached display using the EDID system. Alternatively you can select an *output aspect ratio* from the standard aspect ratio options provided in the **Aspect Ratio** drop-down menu.
 - If you want to specify a custom aspect ratio, select **Custom** from the menu. With *Custom* selected, the **Custom X** and **Custom Y** fields are enabled. Enter the desired aspect ratio.
3. To rotate the output display, select the desired degree of counter-clockwise rotation from the **Rotation (Counterclockwise)** drop-down menu. The default setting is **0** (zero = no rotation). Other settings are 90, 180, and 270. Use the first and last of these settings if the Player is displaying portrait content or if the Player is mounted on its side. Select 180 degrees if the display is mounted upside down.
4. This screen also contains a small number of settings for Player display logging (known as As-Run Logging). To configure your Player to log what it displays, set the checkbox **Enable As-Run Logging**. Once this setting is enabled the Player will log the names of the digital signs (called Messages in Composer) it displays and the data that makes up the signs. This may result in excessively large log files. If you do not need the contents data and the name are sufficient, then set the checkbox **Exclude Template Data**. You can change both these setting later if you are not sure what is required. However, be aware that data on what has been played is only available for signs (Messages) published to the Player after this setting is enabled.
5. Click **Save** to save your changes

Network Settings

The next page of the wizard is the network configuration page, see FIG. 6. This screen is used to configure the Player network settings.

FIG. 6 Player Network Configuration

Player Networking Overview

The IS-XPT-2000 must be connected to a network to allow it to be configured and to provide the ability to update the content displayed on the Player. The Player requires the following permanent network connections:

- A connection from the PC on which the Inspired Composer application is installed, for content updates
- A connection from the Internet, for News & Weather updates, RSS Feeds, etc. (*optional*)

The location of the Player in the network topology, and the choice of a PC to install the Inspired Composer content management software should be determined accordingly.

To ensure connectivity between the Inspired Composer application and the Player, it is important that the IP address of the Player does not change.

Set the Player Network settings as follows:

1. Enter a name for the Player in the **Host Name** field. The Host Name is returned to Bonjour, to make it easy to identify Players in the Internet Explorer Bonjour plugin device list and in Composer.
2. By default, **DHCP** is enabled for the Player, in which case all of the TCP/IP fields are disabled. AMX recommended that you use DHCP and configure your DHCP Server to prevent the Player IP address from changing.

To manually configure these settings, de-select **DHCP** and enter the desired *Machine IP*, *Subnet Mask*, *Default Gateway* and *Primary/Secondary DNS* values in the respective fields, ask your Network administrator for these values. Make a note of the IP address for later reference.

3. Click **Next** to continue.

Time Zone and Date/Time Settings

Use the options in the *Language Configuration* page to access the Time Zone, Locale, and current Date & Time settings for the Player:

1. Set the date for the Player by entering a date in the date field or by using the calendar icon.
2. Set the Player time by entering the time in 24 hour notation.
3. Set the Player locale using the Language drop down menu, this affects the way dates are displayed on the Player.
4. Set the Player Time Zone:
 - a. Select the appropriate time zone from the **Time zone** drop-down menu (FIG. 7).

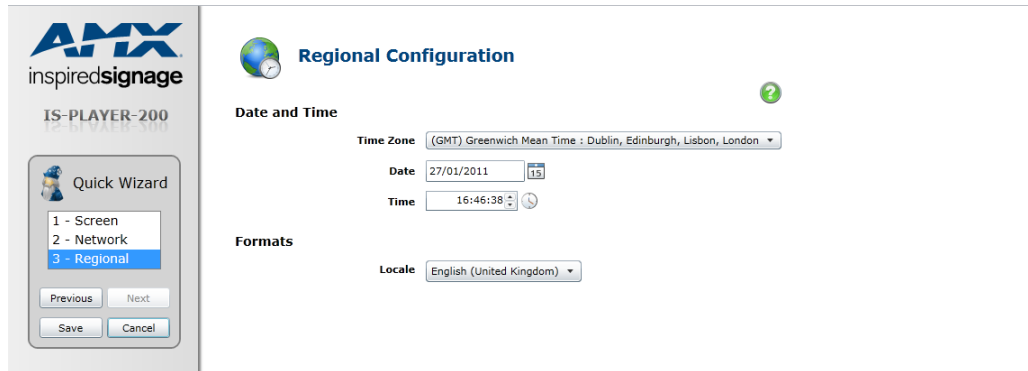


FIG. 7 Date Time Configuration page - Time Zone menu

Restarting The Player

After setting the Time Zone, Date/Time, and Display settings, you will be prompted to restart the Player to apply the changes you have made in the three sections of the Player configuration wizard.



NOTE

The web page will show that the Player has restarted after approximately 20 seconds.

Turn off the Player Diagnostic Screen and Change Player Password

Proceed as follows:

1. Connect to the Player Web Configuration Tool using the IP address on the Player diagnostic screen by entering the following URL into Internet Explorer: **http://<Player IP>**, for example, **http://192.168.81.98**.
2. Login to the Player to change settings as follows:
 - a. Click the **Login** button in the left hand Web Configuration Tool pane.
 - b. Enter the default username and password as follows:
 - User = Administrator
 - Password = administrator
3. Click **Liveview** in the left hand pane and select hide diagnostics in the right hand pane. The Player should no longer display diagnostic information on the screen.
4. We strongly recommend that you change the password for the Player by clicking **Change Password** in the left hand pane. Enter your current password and the new password you wish to use. You are now ready to publish content to this Player using Composer

Installation and Setup of Inspired Composer Software

Installing Inspired Composer

Refer to the *Composer Desktop Installation Guide* or *Composer Server Installation Guide* as appropriate for installation instructions.

Setup Composer

Next you need to setup Composer to display content on the Player. Note that you must carry out the operations described below in the correct order to avoid problems. Refer to the *IS XPert Operation/Reference Guide* for detailed instructions.

The process is as follows:

1. Import/Manually Configure your Player(s)
2. Add your Player(s) to the Publish Point System (A hierarchical grouping of Players)
3. Import Template Packs and publish these Template Packs to your Player(s)
4. Add a Layout Message to the Layout Playlist
5. Add content Messages to the Area Playlists
6. Publish changes to the Player(s)

Appendix A: Configuring the Player using Bonjour

Bonjour (Zero-Configuration) Client

You can use a zero-configuration client to determine the IP address of the Player. Note, this technique will only work if the Player and the machine that you are using are on the same subnet.

There are several zero-configuration clients available. However, for the purposes of this document, we will refer to *Bonjour for Windows*. It is free and widely available for download at www.apple.com/support/downloads/bonjourforwindows.html. If you don't already have it installed on your PC, download and install *Bonjour for Windows* before you begin.

Accessing the Player Web Configuration Pages

Use the Player's zeroconf feature and the *Bonjour for Windows* plug-in utility to install and configure Players on the network without the need to pre-configure each device before installation.

The first step is to match the MAC Address (provided on a decal placed on the underside of the Player) to the MAC Address that is displayed in the Bonjour browser pane. Alternatively you can use the MAC address displayed on the Player Diagnostic Screen displayed on screen when the Player is first switched on.

Then proceed as follows:

1. Launch Internet Explorer with the Bonjour plug-in. Open the Bonjour plug-in in Internet Explorer by selecting **View > Explorer Bars > Bonjour**
2. Once power is applied to the device, the Bonjour plugin displays the devices as shown in FIG. 8:



FIG. 8 Internet Explorer with Bonjour plug-in

Notice that the MAC Address is appended to the name of the device.

3. Double-click on a Player to access the *Inspired Signage Web Configuration Tool*. Note, that the Web Configuration Tool requires the Microsoft Silverlight plugin. The first time you access the Web Configuration Tool a prompt will appear to install this plugin. You will need to be connected to the internet to install the Plugin.
4. Once you have successfully connected, a wizard will start to take you through setting the display resolution, network configuration, setting the Language/Locale and date/time, see the section: *Player Configuration* for more details

Appendix B: Configuring the Player in a Network Without a DHCP Server

By using the Player's built-in *Zeroconf* feature and the *Bonjour for Windows* plug-in utility, you can install and configure the Player in a network that does not have a DHCP Server, via link-local addressing. Install the Bonjour for Windows plugin from apple.com/support/downloads/bonjourforwindows.html.

To establish a network connection from a PC to the Player:

1. Directly connect a PC and the IS-XPT-2000, and apply power to the IS-XPT-2000.
2. Confirm that the PC has assigned itself an IP address:
 - a. If the PC's network interface is set to DHCP, wait several minutes to ensure the PC reverts to link-local addressing.
 - b. Confirm that the PC has assigned itself an IP by running **ipconfig** from a CMD shell (FIG. 9).

```

C:\WINNT\system32\cmd.exe
C:\Documents and Settings\dernst>ipconfig

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 169.254.83.124
    Subnet Mask . . . . .             : 255.255.0.0
    Default Gateway . . . . .         : 

Ethernet adapter Local Area Connection 3:

    Connection-specific DNS Suffix  . : 
    Autoconfiguration IP Address. . . : 
    Subnet Mask . . . . .             : 
    Default Gateway . . . . .         : 

Ethernet adapter Bluetooth Network:

    Media State . . . . .              : Cable Disconnected

Ethernet adapter VMware Network Adapter VMnet1:

    Connection-specific DNS Suffix  . :
  
```

FIG. 9 CMD shell (ipconfig)

The example in FIG. 9 shows the *Ethernet adapter Local Area Connection*: could not find a DHCP server and assigned itself the IP address of **169.254.83.124** with Subnet Mask **255.255.0.0**. This is a valid link-local address.

If the PC did not assign itself a **169.254.x.x** address, or if the PC assigned itself the address **169.254.2.2** then proceed to Step 3. Otherwise, skip to Step 4.

3. **Manually assign an IP address**, via the *Internet Properties (TCP/IP) Properties dialog* (FIG. 6):

You may need to manually assign the IP on the PC if the PC does not support link-local addressing or if the PC assigned itself the IP address of **169.254.2.2**.

 - The Player assigns itself **169.254.2.2** by default when it reverts to link-local addressing.
 - Therefore, in order to avoid conflict the PC *cannot* be assigned IP address **169.254.2.2**.

Manually set the PC's IP address to **169.254.1.1** and subnet mask to **255.255.0.0** (FIG. 6).
4. Launch Internet Explorer and select the Bonjour Plug-in.
5. Double-click the **IS-XPT-2000** in the Bonjour Plug-in pane to start the *Player Web Configuration Tool* wizard. Note, that the Web Configuration Tool requires the Microsoft Silverlight plugin. The first time you access the Web Configuration Tool a prompt will appear to install this plugin. You will need to be connected to the internet to install the Plugin

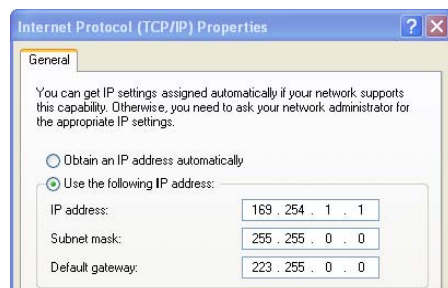


FIG. 10 Manually assigning an IP address on the PC



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