Intel® WiDi 4.3.3.0 for Windows 8.1 End User Upgrades Supporting Intel® 2nd Gen Core™ Based Systems.

4.3 PV Readme File

Intel® WiDi is enabled through the following Intel software components: Intel® WiDi application, Intel® HD Graphics Driver, Intel® PROSet/Wireless Driver with Intel® My WiFi Technology enabled.

Intel WiDi 4.3 Production Version Build, 64-bit and 32-bit, version 4.3.3.0

TV Adapter Firmware for Intel WiDi Build version 3.5.42.0

September 2013

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Requires an Intel® Wireless Display enabled PC, compatible adapter, and TV. 1080p and Blu-Ray® or other protected content playback only available on 2nd generation Intel® Core™ processor-based PCs with built-in visuals enabled. Consult your PC manufacturer. For more information, see www.intel.com/go/widi

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1 Overview

Intel WiDi is a solution that enables a user to wirelessly project his or her PC display to a TV across the living room or conference room. The experience is similar to a consumer connecting his or her Notebook PC to a TV via an HDMI cable. Full desktop (including text, presentations, pictures, web content, commercial video discs such as DVD and Blu-ray, and online premium content services like Intel® Insider video) are sent to the TV and audio, up to 6-channel 16-bit/48 kHz LPCM multi-channel audio is rendered in-sync with up to 1080p HD video. This is made possible through a TV adapter that is connected to the TV via a standard HDMI connection or integrated into the HDTV. The TV adapter or integrated receivers wirelessly communicates over 802.11g/n with the WiDi enabled PC and receives its display information in a standard video format.

The usage model is simple: a user with an Intel WiDi Technology-enabled laptop is in the same room as a TV (e.g., living room) with a TV adapter attached or integrated into the TV. The user selects the adapter/receiver as the source in the TV input selection, and initiates wireless connection from PC. The PC display and audio, if present, will be sent over the wireless connection. Though it is generally useful for desktop remoting, applications requiring very low latency interactions may not be usable.

The adapter setup (first time use) is secure & simple. At the first power on and connection attempt, the adapter displays a security code on the TV screen. The user enters this security code during the initial launch of the WiDi host software, thereby pairing the adapter and host.
2 System Requirements

1. Intel® WiDi 4.3 64-bit and 32-bit requires a Personal Computer (PC) configured with one of the following Intel supported configurations:

Supported Platform Configurations

- Processors
  - 2nd Generation Intel® Core™ Mobile processor family: - All Intel Core i3/i5/i7 mobile processor
- Graphics Controller
  - Intel® HD Graphics

2. Intel WiDi requires the following software components to be installed and configured on one of the supported operating systems listed above:

a. Microsoft® .Net 4.0 Framework is required for installation of Intel WiDi on Win*8/ 7
   c. Intel WiDi-compatible version of the Intel® PROSet/Wireless Driver and Intel My WiFi Technology software. 16.5 or later is required for Windows*8.1 for Intel legacy Wi-Fi modules

Supported Operating System

- Windows* 8.1 64bit & 32-bit editions

**Note:** The Intel® HD Graphics Driver & the Intel PROSet/Wireless Driver software must be installed prior to installing Intel WiDi software to meet platform detection requirements of the Intel WiDi software.

2.1 Windows* 8.1: Required Configuration

Intel® HD Graphics Driver Release 15.28.18.3223 base line or later

Intel® Centrino® Ultimate-N 6300 / Advanced-N + WiMAX 6250 / Advanced-N 6205 / Advanced-N + WiMAX 6150 / Wireless-N 2200 / Wireless-N 2230 / Advanced-N 6235

- Intel® PROSet/Wireless Driver Release 16.5 or later

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Supported Languages

- Arabic
- Bulgarian
- Croatian
- Czech
- Danish
- Dutch
- English
- Estonian
- Finnish
- French (Canada)
- French
- German
- Greek
- Hebrew
- Hungarian
- Italian
- Japanese
- Korean
- Latvian
- Lithuanian
- Norwegian
- Polish
- Portuguese (Brazil)
- Portuguese (Portugal)
- Romanian
- Russian
- Serbian
- Simplified Chinese
- Slovenian
- Slovakian
- Spanish
- Swedish
- Thai
- Traditional Chinese
- Turkish
3 Installing & Configuring Intel® WiDi Software

General Installation Notes for Intel WiDi software and Firmware: Intel WiDi software release is a single-file based installer.

1. Exit all other programs before installing the Intel WiDi software.
   a. Copy the Intel WiDi "Setup.exe" to an accessible drive. Navigate to the location of the setup.exe file and double click on the setup.exe file, to initiate the software install.
   b. Click 'Next' to continue.
   c. Read License Agreement and select "I accept the terms in the license agreement" and click 'Next' to continue.
   d. Select 'Install' to start installing the Intel WiDi software.
   e. Follow the installer prompts to complete the installation.

3.1 Uninstalling Intel WiDi Software

Note: This procedure assumes the above installation process was successful. The uninstall procedure is specific to the version of the driver and application files included in this release package.

1. Click the start button then select the "Control Panel" icon, and then click on the "Programs and Features" icon.
2. Select Intel WiDi.
3. Click the "Uninstall" option button to uninstall the Intel WiDi
4. Reboot the system to complete the uninstall process.

3.2 Adapter Requirements

Intel® WiDi requires an Intel WiDi enabled receiver configured or updated with the latest firmware for Intel WiDi.

3.3 Installing TV Adapter Firmware

Note: This firmware installation procedure is specific only to Intel based reference adapters and this release of Intel WiDi.

Step 1: Install Intel WiDi software release on the computer.

Step 2: Start Intel WiDi to establish a connection with the adapter to be updated.

Step 3: Shortly after a connection is established, a dialog box will appear informing you that there is a "Firmware Update" available. Select “Yes” to proceed to the Firmware Update page and click "Update"

Step 4: Follow the prompts to complete the update process.

Step 5: Once the update process is complete and the adapter has rebooted you should close the Intel WiDi application and re-launch the Intel WiDi application to re-establish a connection to the updated adapter and start a new Intel WiDi session.

3.4 3rd Party Intel WiDi Enabled Receivers/Adapters

Note: All 3rd party Intel WiDi enabled receivers that are not based on Intel reference design will manage their respective firmware updates and methods of updating. Consult the 3rd party vendor’s web site for information.
### 3.5 Features

<table>
<thead>
<tr>
<th>Reference No.</th>
<th>Title / Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Touch First User Interface</td>
</tr>
<tr>
<td>N/A</td>
<td>Unified 32/64-bit Software Installer, using single file</td>
</tr>
<tr>
<td>N/A</td>
<td>Up to 1080p (Full HD) with hardware based H.264 encoding</td>
</tr>
<tr>
<td>N/A</td>
<td>802.11n support: 2.4GHz and 5GHz bands (non DFS channels)</td>
</tr>
<tr>
<td>N/A</td>
<td>Support for Intel® HD Graphics 3000</td>
</tr>
<tr>
<td>N/A</td>
<td>HDCP 2.x Output Protection to support DVD, Blu-ray streaming</td>
</tr>
<tr>
<td>N/A</td>
<td>Interoperability with DLNA Receivers (That support AVC/TS file format)</td>
</tr>
<tr>
<td>N/A</td>
<td>Support for Microsoft® Windows® 8.1</td>
</tr>
</tbody>
</table>

### 3.6 Known Errata and Limitations

<table>
<thead>
<tr>
<th>Known Errata</th>
<th>Description</th>
<th>Win8.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel WiDi user interface shows status as &quot;Connecting&quot; and the adapter displays status as &quot;Connected&quot; permanently during a connect/disconnect scenario in which the User attempts to cancel during WiFi Protected Setup and clicks connect again. <strong>Workaround:</strong> Click the cancel button and wait ~40secs for adapter to return to the ready for connection state and start again.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Intel WiDi does not discover Netgear PTV1000 adapters. <strong>Workaround:</strong> This is expected behavior as Netgear PTV1000 does not support Win8.1 Wi-Fi Direct protocol.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Intel WiDi freezes when Bluetooth file transfer is initiated on systems incorporating Bluetooth/WiFi combination modules. <strong>Workaround:</strong> Do not perform files transfers during an active WiDi Session.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Audio is not heard from Host when switching off the TV. <strong>Workaround:</strong> Stop the WiDi session to return audio to the system audio device.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Intel WiDi error message &quot;Wrong security code&quot; and TV displays PIN repetitively if there is a delay greater then ~90 seconds in entering the pin for pairing. <strong>Workaround:</strong> Disconnect from the adapter to return to the idle state and then re-connect and enter the PIN as soon as prompted.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>In rare instances connection with adapter fails, the adapter screen prompts the user to enter the pin security code the next time a connection is attempted. <strong>Workaround:</strong> Enter the PIN code as shown on TV and Pairing procedure is carried out with Adapter screen showing &quot;Security Configuration Successful&quot;, followed by Desktop being shown on TV.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Known Errata</td>
<td>Description</td>
<td>Win8.1</td>
</tr>
<tr>
<td>--------------</td>
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<tr>
<td></td>
<td>Blank video screen is displayed on TV when Video is played on 3rd party Media Player with Overlay Mixer mode. <strong>Workaround:</strong> Reinstall player in VMR mode</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Corrupted Video displays on some premium media players after HDMI Hot plug during Blu-ray playback in duplicate mode. <strong>Workaround:</strong> None</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>The Intel WiDi software shall support screen rotation. In duplicate display mode the WiDi screen will mirror the orientation of the display when it is a clone of (no independent rotation support while in duplicate display mode). In extended display mode the WiDi screen can be rotated independently of the other displays. <strong>Workaround:</strong> None</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>WiDi fast cursor icon will not change/rotate when screen is rotated. <strong>Workaround:</strong> None</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Clicking the WiFi scan icon continuously during a WiDi session will cause WiFi interference resulting in video corruption on the TV screen. <strong>Workaround:</strong> Do not continuously click the Wireless scan icon.</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Applications and games that require DirectX support are not supported such as: 3D DirectX games will not run properly with an active WiDi session. 3D Mark06 and 3D Mark Vantage benchmark tool will not run with an active WiDi session. <strong>Workaround:</strong> None</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>In noisy WiFi environments Audio / video freezes may be observed while playing video content and or longer than expected latency may occur when streaming over DLNA. <strong>Workaround:</strong> Ensure you have a clean/optimal WiFi environment</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>In some instances you may not be able to connect to the adapter after installing McAfee antivirus software. <strong>Workaround:</strong> Add WiDi to the McAfee approved white list of applications</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>In some instances you may not be able to connect to the adapter after installing Norton antivirus software. <strong>Workaround:</strong> Add WiDi to the Norton approved white list of applications</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Connecting to an access point with an active WiDi session can result in dropping the WiDi connection. <strong>Workaround:</strong> Reconnect or connect to the Access point first before starting a WiDi session</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>When playing a video with WMP player with 5.1 audio enabled and the user changes from Regular mode to low delay mode audio is not heard. <strong>Workaround:</strong> Restart the video on WMP (or close and restart WMP).</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Broadcom based systems only support WFD protocol and hence won't be able to upgrade Gen2 and Gen3 Intel Reference adapters running L2SD firmware version 3.1.x or earlier. The adapters must be upgraded to a 3.5.9 version of Firmware using a system configured with an Intel supported wireless NIC. <strong>Workaround:</strong> None</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Manually terminating the WiDi.exe task from Task Manager or if the application crashes it will result in the audio playback not automatically returning to the system audio. <strong>Workaround:</strong> Close the WiDi application and re-launch it which will reset the default audio device back to the system audio.</td>
<td>X</td>
</tr>
</tbody>
</table>
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